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CORPS OF ENGINEERS BUFFALO N Y BUFFALO DISTRICT

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WATER QUALITY DATA FOR LAKE ERIE BASIN SMALL WATERSHED SAMPLING--ETC(U)
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LAKE ERIE
WASTEWATER
MANAGEMENT
STUDY

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WATER QUALITY DATA

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LAKE ERIE BASIN
SMALL WATERSHED

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This report presents data that represents water quality information collected at 44 Lake Erie basin small-watershed sampling stations for the Lake Erie Wastewater Management Study. A list of these stations along with the U. S. Geological Survey identification number (if available) and drainage area is provided and the		

approximate location of the sampling stations in relation to the Lake Erie drainage basin are indicated.

Samples collected were analyzed for the following parameters: total phosphorus, ammonia nitrogen, nitrite-nitrate nitrogen, chlorides, dissolved silica, suspended solids, and conductivity. Twenty percent of the samples were analyzed for total kjeldahl nitrogen and iron. Less than 1 percent of the samples were analyzed for total solids, total dissolved solids, total organic carbon, dissolved organic carbon, total carbon, soluble phosphorus, and chemical oxygen demand.

**WATER QUALITY DATA
FOR LAKE ERIE BASIN
SMALL WATERSHED SAMPLING STATIONS**

**LAKE ERIE WASTEWATER MANAGEMENT STUDY
U.S. ARMY CORPS OF ENGINEERS
BUFFALO DISTRICT**

MARCH 1979

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Organization

Michigan Department
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Lansing, MI

Heidelberg College
Water Quality Laboratory
Tiffin, OH

City of Cleveland
Water Quality Program

State University of New York
at Fredonia

Great Lakes Laboratory
Buffalo State College
Buffalo, NY

Supporting Data

Station 1 (1)

Stations 2-20 and 26-34 (2)

Stations 24 and 35

Station 41

Stations 21-23, 25,
36-40 and 42-44

A

The Michigan, Ohio, and New York Divisions of the U.S. Geological Survey have provided portions of the flow data.

- (1) Station numbers are taken from map shown in Figure 1.
- (2) Data for Stations 26-34 was collected by U.S. Geological Survey and analyzed by Heidelberg College.

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INTRODUCTION

The data presented in this report represents water quality information collected at forty-four Lake Erie Basin small watershed sampling stations for the Lake Erie Wastewater Management Study.

A list of these stations along with the U.S. Geological Survey identification number (if available) and drainage area is provided in Table 1. Figure 1 shows the approximate location of the sampling stations in relation to the Lake Erie drainage basin. Figure 2 depicts the Honey Creek substations and their location in the Honey Creek watershed. Figure 3 shows the location of the sampling stations throughout the Cuyahoga River Basin.

Stations with map reference numbers 2-23, 27-32, 36-38, and 40-44 are not located at a U.S.G.S. continuous level station. Flow data for these stations was developed through joint effort by LEWMS staff, U.S.G.S., and the Contractor responsible for the station.

Samples collected were analyzed for the following parameters: total phosphorus, ammonia nitrogen, nitrite-nitrate nitrogen, chlorides, dissolved silica, suspended solids and conductivity. Twenty percent of the samples were analyzed for total kjeldahl nitrogen and iron. Less than one percent of the samples were analyzed for total solids, total dissolved solids, total organic carbon, dissolved organic carbon, total carbon, soluble phosphorus, and chemical oxygen demand.

LAKE ERIE BASIN SMALL WATERSHED SAMPLING STATIONS

TABLE 1

STATION IDENTIFICATION	LEWMS CODE	USGS NUMBER	DRAINAGE AREA IN SQ. MILES	MAP REFERENCE #
Sashabaw Creek near Drayton Plains, Michigan	07SB	04160800	20.9	1
Honey Creek Substation A	HCA	N.A.	5.3	2
Honey Creek Substation AA	HCAA	N.A.	3.7	3
Honey Creek Substation 1	HC1	N.A.	171	4
Honey Creek Substation E	HCE	N.A.	5.6	5
Honey Creek Substation 3	HC3	N.A.	121.6	6
Honey Creek Substation 4	HC4	N.A.	24.4	7
Honey Creek Substation M	HCM	N.A.	16.4	8
Honey Creek Substation N	HCN	N.A.	12.1	9
Honey Creek Substation 6	HC6	N.A.	16.3	10
Honey Creek Substation 5	HC5	N.A.	95.6	11
Honey Creek Substation 7	HC7	N.A.	75.6	12

* Numbers refer to Figure 1.
N.A. - Indicates not available

LAKE ERIE BASIN SMALL WATERSHED SAMPLING STATIONS

TABLE I

STATION IDENTIFICATION	LEWMS CODE	USGS NUMBER	DRAINAGE AREA IN SQ. MILES	MAP REFERENCE #
Honey Creek Substation F	HCF	N.A.	10.1	13
Honey Creek Substation 8	HC8	N.A.	26.8	14
Honey Creek Substation 9	HC9	N.A.	20.5	15
Honey Creek Substation B	HCB	N.A.	3.4	16
Honey Creek Substation 10	HC10	N.A.	15.7	17
Honey Creek Substation G	HCG	N.A.	4.4	18
Honey Creek Substation RCE **	RCE	N.A.	7.0	19
Honey Creek Substation RCW **	RCW	N.A.	15.6	20
Norwalk Creek near Norwalk, Ohio	25NN	04198100	4.9	21
Neff Run near Litchfield, Ohio	29NL	04199800	0.76	22
Plum Creek at Oberlin, Ohio	29PO	04200100	4.8	23

** Outside Honey Creek Watershed

LAKE ERIE BASIN SMALL WATERSHED SAMPLING STATIONS

TABLE I

STATION IDENTIFICATION	LEWMS CODE	USCS NUMBER	DRAINAGE AREA IN SQ. MILES	MAP REFERENCE #
Cuyahoga River at West 3rd Street in Cleveland, Ohio	33CC	04208506	798	24
Big Creek at Cleveland, Ohio	33BC	04208502	35.3	25
Tinkers Creek at Bedford, Ohio	33TB	04207200	83.9	26
Chippewa Creek near Brecksville, Ohio	33CR	04206450	17.7	27
Brandywine Creek at Jaite, Ohio	33BJ	04206420	27.2	28
Cuyahoga River at Peninsula, Ohio	33CP	04206400	494	29
Furnace Run near Everett, Ohio	33FW	04206370	17.7	30
Yellow Creek near Botzum, Ohio	33YB	04206220	30.7	31

LAKE ERIE BASIN SMALL WATERSHED SAMPLING STATIONS

TABLE I

STATION IDENTIFICATION	LEWMS CODE	USGS NUMBER	DRAINAGE AREA IN SQ. MILES	MAP REFERENCE #
Mud Brook near Akron, Ohio	33MA	04206050	29.3	32
Cuyahoga River at Old Portage, Ohio	33CO	04206000	404	33
Little Cuyahoga River at Akron, Ohio	33CA	04205700	59.2	34
Cuyahoga River at Hiram Rapids, Ohio	10CH	04202000	151	35
Montville Ditch at Montville, Ohio	37MM	04210090	0.29	36
Hoskins Creek at Hartsgrove, Ohio	37HH	04210100	5.42	37
Hubbard Run Tributary at Ashtabula, Ohio	39HA	04212600	0.88	38
Raccoon Creek near West Springfield, Pennsylvania	42RC	04213040	2.53	39

LAKE ERIE BASIN SMALL WATERSHED SAMPLING STATIONS

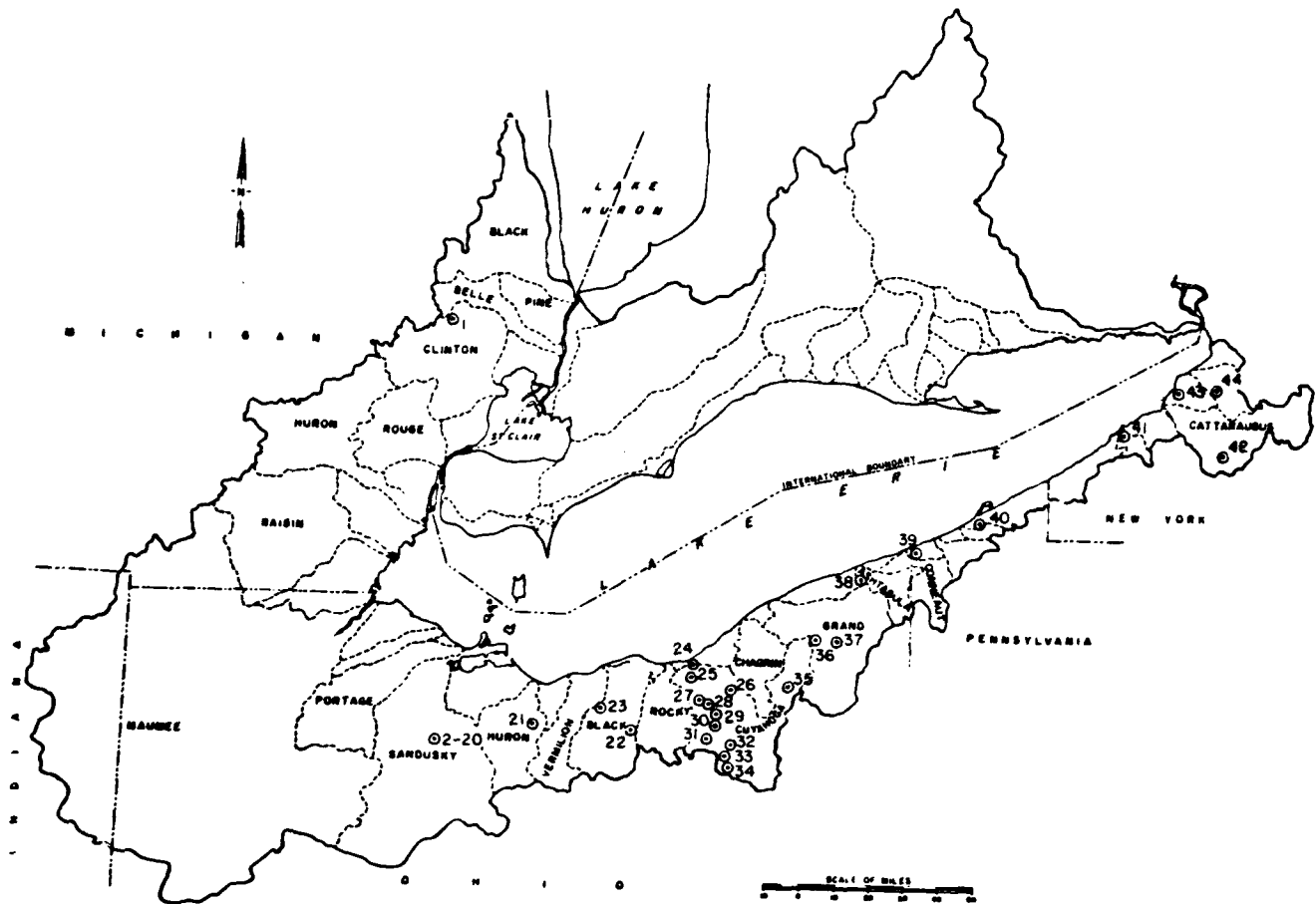
TABLE I

STATION IDENTIFICATION	LEWIS CODE	USGS NUMBER	DRAINAGE AREA IN SQ. MILES	MAP REFERENCE #
Mill Creek at Erie, Pennsylvania	46ME	04213200	9.2	40
Canadaway Creek at Fredonia, New York	57CC	N.A.	34.9	41
S. Branch Cattaraugus Cr. near Otto, New York	49CO	04213490	25.6	42
Delaware Creek near Angola, New York	50DA	04214040	8.15	43
Eighteen Mile Creek at North Boston, New York	51EM	04214200	37.2	44

LAKE ERIE BASIN

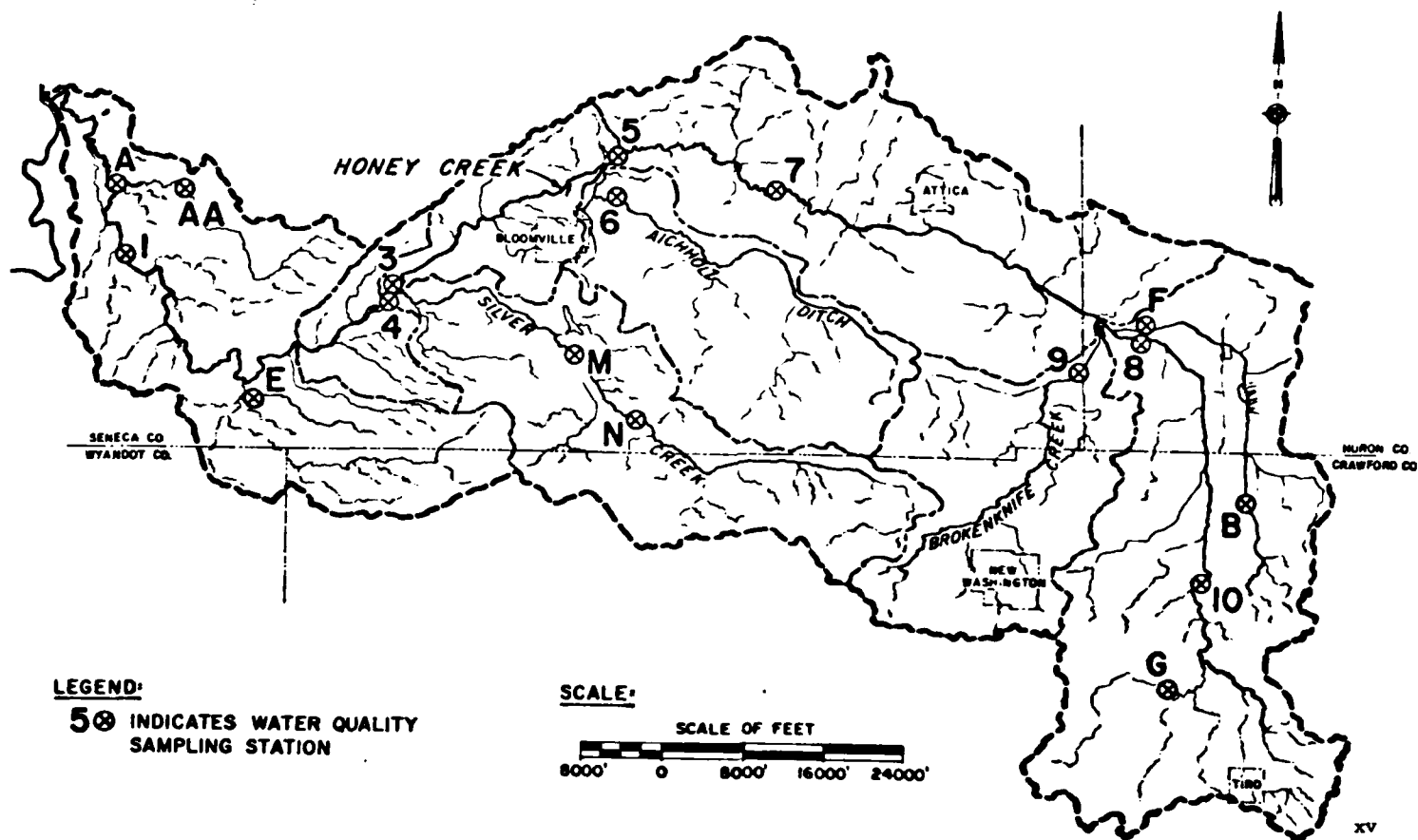
SMALL WATERSHED SAMPLING STATIONS

FIGURE 1



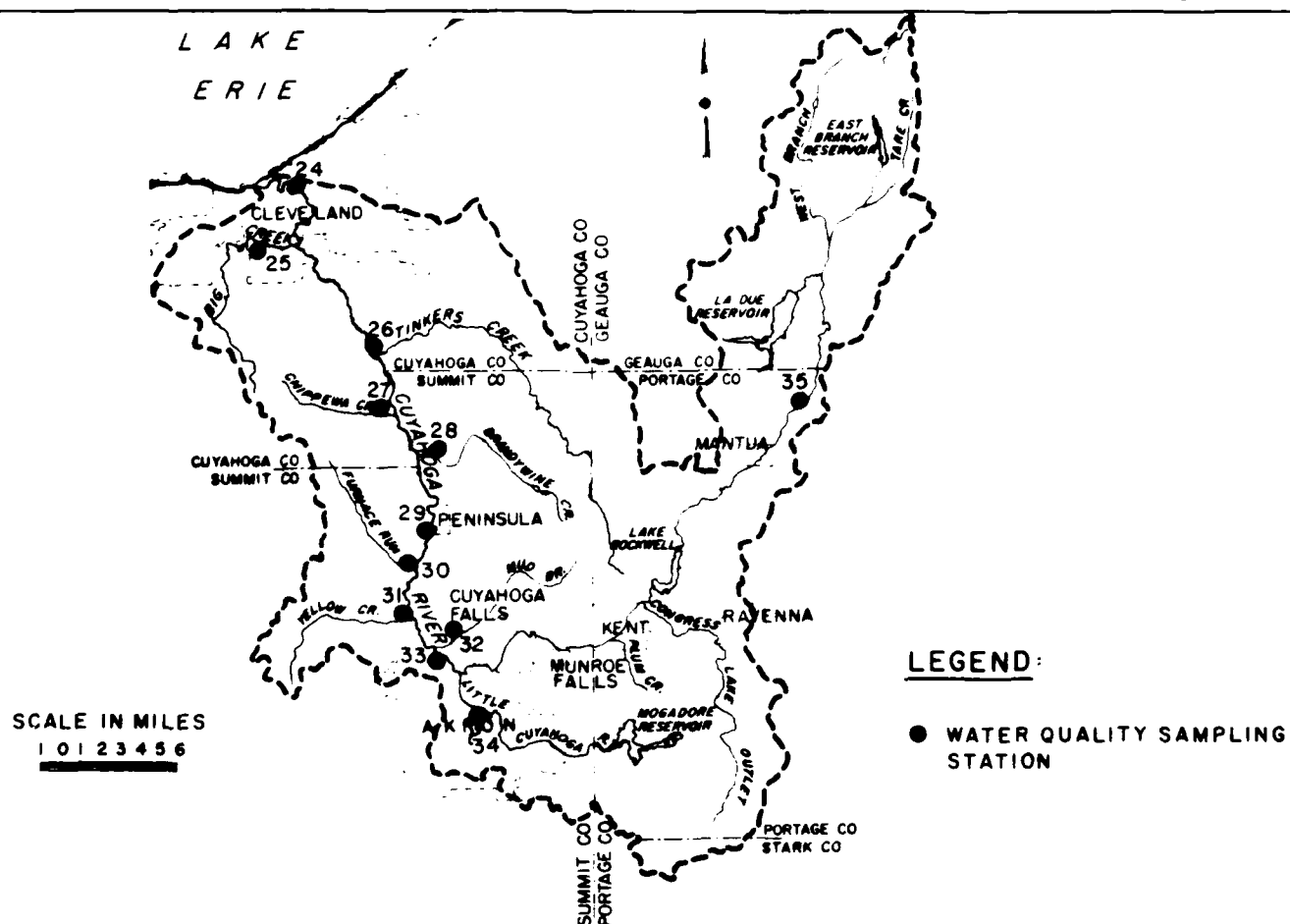
HONEY CREEK BASIN

FIGURE 2



CUYAHOGA RIVER BASIN

FIGURE 3



ANALYTICAL PROCEDURES

Parameter	City of Cleveland Water Quality Program	SUNY at Fredonia	Heidelberg College River Studies Laboratory	Michigan Department of Natural Resources	SUNY Great Lakes Laboratory
Total Phosphorus	Single Reagent Automated	Manual Digestion on Hot Plate All Samples Filtered	Automated Heated in Autoclave High SS Filtered Persulfate Digestion Ascorbic Acid/Single Reagent	Automated Block Digester 300° Perchloric Sulfuric Digestion Ascorbic Acid No Filtration	Acid Sulfate (K_2SO_4) Block Digestion Automated Single Reagent Addition
Dissolved Inorganic Phosphorus	Single Reagent Automated	Manual Single Reagent	Automated Single Reagent	Supernatant Analate Centrifuged for very hi SS Otherwise Just Settled	Prewashed Millepore HANP Single Reagent
Suspended Solids	By Calculation Res T - Res Filt = SS	Millipore Filter .45 103° - 105°C	Glass Fiber Filter 103° - 105°C	Glass Fiber Filter 103° - 105°C	GF/C (Whatman) Glass Fiber .1 Mg Sens. 103° - 105°C
Nitrate & Nitrite Nitrogen	Brucine Sulfate Automated Cadmium Reduction	Brucine Sulfate Manual	Automated Cadmium Reduction	Cadmium Reduction, Automated	Cadmium Reduction, Automated
Ammonia-Nitrogen	Nesslerization Automated Phenate	Nesslerization	Automated Phenate	Automated Phenate	Automated Phenate
Specific Conductance	Instrumental 25°C Correction	N.D.	Barnstead Mod. PM FOCB YSI Probe Samples Adj to 25°C	YSI 25° Correction	YSI, L&N 25° Correction
Silica	N.D.	Atomic Absorption After Filtration	Automated Molybdosilicate	Automated Molybdosilicate	Automated Molybdosilicate
Chloride	Mercuric Nitrate (S.M.)	Mercuric Nitrate	Mercuric Nitrate	Automated Ferrous Cyanide (EPA)	Ion Selective Electrode

N.D. - indicates not determined

ANALYTICAL PROCEDURES

Parameter	City of Cleveland Water Quality Program	SUNY at Fredonia	Heidelberg College River Studies Laboratory	Michigan Department of Natural Resources	SUNY Great Lakes Laboratory
Iron	N.D.	N.D.	Automated Phenanthroline	N.D.	N.D.
Total Kjeldahl Nitrogen	Automated Phenate	Calculation ($\text{NH}_3\text{-N} + \text{Organic-N}$)	Ultra Micro Semi-Automated Iodophenol Blue Method	Same Digestion as TP Automated Selenium	Ultra Micro Semi-Automated Iodophenol Blue Method
Chemical Oxygen Demand	SM	SM Mod EPA Reflux	N.D.	N.D.	N.D.
Total Carbon	Flame Ionization	N.D.	Flame Ionization	N.D.	N.D.
Total Solids	Drying, 180°C	Drying, 180°C	N.D.	N.D.	N.D.
Total Dissolved Solids	Filtration, 180°C	Filtration, 180°C	N.D.	N.D.	N.D.
Total Organic Carbon	Flame Ionization	N.D.	Flame Ionization	N.D.	N.D.
Dissolved Organic Carbon	Flame Ionization	N.D.	Flame Ionization	N.D.	N.D.
pH	N.D.	N.D.	N.D.	Meter in Lab	Meter in Field, L & N
Temperature	N.D.	N.D.	N.D.	Field, Thermometer	N.D.

N.D. - indicates not determined

STATION LOCATION DESCRIPTION

04160800 SASHABAW CREEK NEAR DRAYTON PLAINS, MI

Lat 42°43'12", long 83°21'13", in SE¼ sec. 26, T.4 N., R.9 E., Oakland County, Hydrologic Unit 04090003, on right bank 25 feet (8 m) upstream from bridge on Maybee Road, 1.1 mi (1.8 km) upstream from mouth, and 2.5 mi (4.0 km) northeast of Drayton Plains.

HONEY CREEK SUBSTATION A

Lat 41°03'52", long 83°10'22", in sec.7, T.1 N., R.15 E., Seneca County, Hydrologic Unit 04100011, at bridge on State Route 231, 0.2 mi (0.32 km) upstream from confluence with Honey Creek.

HONEY CREEK SUBSTATION AA

Lat 41°03'49", long 83°09'03", on west line of sec.9, T.1 N., R.15 E., Seneca County, Hydrologic Unit 04100011, at bridge on Township Road 151, 1.5 mi (2.4 km) upstream from confluence with Honey Creek.

HONEY CREEK SUBSTATION 1

Lat 41°02'46", long 83°10'12", on east line of sec.18, T.1 N., R.15 E., Seneca County, Hydrologic Unit 04100011, at bridge on State Route 231, 5.1 mi (8.2 km) upstream from mouth.

HONEY CREEK SUBSTATION E

Lat 40°59'55", long 83°07'52", in sec.34, T.1 N., R.15 E., Seneca County, Hydrologic Unit 04100011, at bridge on State Route 67, 1 mi (1.6 km) upstream from confluence with Honey Creek.

HONEY CREEK SUBSTATION 3

Lat 41°02'15", long 83°04'35", on north line of sec.24, T.1 N., R.15 E., Seneca County, Hydrologic Unit 04100011, at bridge on Township Road 58, 0.3 mi (0.5 km) upstream from confluence with Silver Creek, and 14.2 mi (22.9 km) upstream from mouth.

HONEY CREEK SUBSTATION 4

Lat 41°02'10", long 83°04'25", on east line of sec.24, T.1 N., R.15 E., Seneca County, Hydrologic Unit 04100011, at bridge on County Road 12, 0.3 mi (0.5 km) upstream from confluence with Honey Creek.

HONEY CREEK SUBSTATION M

Lat 41°01'24", long 83°01'00", on north line of sec.28, T.1 N., R.16 E., Seneca County, Hydrologic Unit 04100011, at bridge on County Road 6, 3.8 mi (6.1 km) upstream from confluence with Honey Creek.

HONEY CREEK SUBSTATION N

Lat 41°00'30", long 82°59'59", on south line of sec.27, T.1 N., R.16 E., Seneca County, Hydrologic Unit 04100011, at bridge on Township Road 44, 5.4 mi (8.7 km) upstream from confluence with Honey Creek.

HONEY CREEK SUBSTATION 6

Lat 41°03'47", long 82°59'49", on west line of sec.11, T.1 N., R.16 E., Seneca County, Hydrologic Unit 04100011, at bridge on County Road 49, 1.1 mi (1.8 km) upstream from confluence with Honey Creek.

HONEY CREEK SUBSTATION 5

Lat 41°04'28", long 82°59'49", on west line of sec.2, T.1 N., R.16 E., Seneca County, Hydrologic Unit 04100011, at bridge on County Road 49, 0.4 mi (0.6 km) upstream from confluence with Aichholz Ditch, and 19.8 mi (31.9 km) upstream from mouth.

HONEY CREEK SUBSTATION 7

Lat 41°03'14", long 82°53'34", in sec.10, T.1 N., R.17 E., Seneca County, Hydrologic Unit 04100011, at bridge on State Route 4, 7.8 mi (12.6 km) upstream from confluence with Aichholz Ditch, and 27.2 mi (43.8 km) upstream from mouth.

HONEY CREEK SUBSTATION F

Lat 41°01'44", long 82°48'45", in sec.4, T.1 N., R.24 W., Huron County, Hydrologic Unit 04100011, at bridge on Weis Road, 0.7 mi (1.1 km) upstream from confluence with Brokenknife Creek, and 32 mi (51.5 km) upstream from mouth.

HONEY CREEK SUBSTATION 8

Lat 41°01'37", long 82°48'45", in sec.4, T.1 N., R.24 W., Huron County, Hydrologic Unit 04100011, at bridge on Weis Road, 0.8 mi (1.3 km) upstream from confluence with Brokenknife Creek, and 32 mi (51.5 km) upstream from mouth.

HONEY CREEK SUBSTATION 9

Lat 41°01'06", long 82°49'48", on east line of sec.30, T.1 N., R.18 E., on the Huron - Seneca County Line, Hydrologic Unit 04100011, at bridge on County Line Road, 1 mi (1.6 km) upstream from confluence with Honey Creek.

HONEY CREEK SUBSTATION B

Lat 40°58'55", long 82°46'18", in sec.5, T.22 N., R.20 W., Crawford County, Hydrologic Unit 04100011, at bridge on Scott Road, 5.6 mi (9.0 km) upstream from Brokenknife Creek, and 36.9 mi (59.4 km) upstream from mouth.

HONEY CREEK SUBSTATION 10

Lat 40°57'36", long 82°47'19", on north line of sec.15, T.22 N., R.20 W., Crawford County, Hydrologic Unit 04100011, at bridge on State Route 103, 6.5 mi (10.5 km) upstream from Brokenknife Creek, and 37.8 mi (60.9 km) upstream from mouth.

HONEY CREEK SUBSTATION G

Lat 40°55'05", long 82°47'52", on west line of sec.19, T.22 N., R.20 W., Crawford County, Hydrologic Unit 04100011, at bridge on Dickson Road, 0.2 mi (0.3 km) upstream from confluence with Honey Creek.

HONEY CREEK SUBSTATION RCE

Lat 41°03'58", long 83°05'01", on south line of sec.1, T.1 N., R.15 E., Seneca County, Hydrologic Unit 04100011, at bridge on County Road 16, 0.5 mi (0.8 km) upstream from confluence with West Branch of Rock Creek.

HONEY CREEK SUBSTATION RCW

Lat 41°03'58", long 83°05'23", on south line of sec. 1, T. 1 N., R. 15 E., Seneca County, Hydrologic Unit 04100011, at bridge on County Road 16, 0.1 mi (0.2 km) upstream from confluence with East Branch of Rock Creek.

04198100 NORWALK CREEK NEAR NORWALK, OHIO

Lat 41°13'58", long 82°32'28", Huron County, Hydrologic Unit 04100012, at bridge on county road, 300 feet (92 m) south of junction of State Highways 601 and 18, 4 mi (6.4 km) southeast of Norwalk, and 6 mi (9.7 km) upstream from mouth.

04199800 NEFF RUN NEAR LITCHFIELD, OHIO

Lat 41°12'33", long 82°01'26", Lorain County, Hydrologic Unit 04110001, at culvert on State Highway 83, 0.7 mi (1.1 km) north of county line, and 2.8 mi (4.5 km) north of Litchfield.

04200100 PLUM CREEK AT OBERLIN, OHIO

Lat 41°17'15", long 82°13'12", Lorain County, Hydrologic Unit 04110001, at bridge on Professor Street in Oberlin.

04208506 CUYAHOGA RIVER AT WEST THIRD ST. BRIDGE, IN CLEVELAND, OHIO

Lat 41°29'17", long 81°41'07", in T. 7 N., R. 12 W., Cuyahoga County, Hydrologic Unit 04110002, on left bank just upstream from bridge on West Third St. in Cleveland, 3.0 mi (4.8 km) upstream from mouth, and 1.2 mi (1.9 km) downstream from turning basin.

04208502 BIG CREEK AT CLEVELAND, OHIO

Lat 41°27'01", long 81°43'18", Cuyahoga County, Hydrologic Unit 04110002, on right bank 8 feet (2.4 m) downstream from footbridge in Brookside Park, 0.2 mi (0.3 km) upstream from bridge on Fulton Road and 2.5 mi (4.0 km) upstream from mouth.

04207200 TINKERS CREEK AT BEDFORD, OHIO

Lat 41°23'04", long 81°31'39", in T. 6 N., R. 11 W., Cuyahoga County, Hydrologic Unit 04110002, on left bank at downstream side of bridge on State Highway 14 in Bedford, 5.5 mi (8.8 km) upstream from mouth.

04206450 CHIPPEWA CREEK NEAR BRECKSVILLE, OHIO

Lat 41°19'02", long 81°35'32", in T.5 N., R.12 W., Cuyahoga County, Hydrologic Unit 04110002, at bridge on Riverview Road, 3.3 mi (5.3 km) downstream from Brandywine Creek, 4.6 mi (7.4 km) upstream from Tinkers Creek, and 1.5 mi (2.4 km) east of Brecksville.

04206420 BRANDYWINE CREEK AT JAITE, OHIO

Lat 41°17'09", long 81°33'44", in T.5 N., R.11 W., Summit County, Hydrologic Unit 04110002, on left bank 50 feet (15.3 m) downstream from bridge on private road, 2.1 mi (3.4 km) downstream from Spring Run, 3.3 mi (5.3 km) upstream from Chippewa Creek and 0.6 mi (1 km) east of Jaite.

04206400 CUYAHOGA RIVER AT PENINSULA, OHIO

Lat 41°14'29", long 81°33'00", in T.4 N., R.11 W., Summit County, Hydrologic Unit 04110002, at bridge on S.R. 303 in Peninsula, 3.9 mi (6.3 km) downstream from Furnace Run, and 5.1 mi (9.0 km) upstream from Brandywine Creek.

04206370 FURNACE RUN NEAR EVERETT, OHIO

Lat 41°12'28", long 81°35'07", in T.4 N., R.11 W., Summit County, Hydrologic Unit 04110002, at bridge on Wheatley Road, 4.2 mi (6.8 km) downstream from Yellow Creek, 2.9 mi (4.7 km) upstream from Salt Run, and 0.7 mi (1.1 km) west of Everett.

04206220 YELLOW CREEK NEAR BOTZUM, OHIO

Lat 41°09'47", long 81°35'02", in T.3 N., R.11 W., Summit County, Hydrologic Unit 04110002, at bridge on Bath Road, 2.7 mi (4.4 km) downstream from Mud Brook, 4.2 mi (6.8 km) upstream from Furnace Run, and 0.5 mi (0.8 km) west of Botzum.

04206050 MUD BROOK NEAR AKRON, OHIO

Lat 41°08'20", long 81°32'54", in T.3 N., R.11 W., Summit County, Hydrologic Unit 04110002, at bridge on Akron-Peninsula Road, 1.6 mi (2.7 km) downstream from Little Cuyahoga River, 2.7 mi (4.4 km) upstream from Yellow Creek, and 4 mi (6.4 km) north of Akron.

04206000 CUYAHOGA RIVER AT OLD PORTAGE, OHIO

Lat 41°08'08", long 81°32'50", Summit County, Hydrologic Unit 04110002, on right bank 230 feet (70 m) upstream from North Portage Path bridge at Old Portage, 1.2 mi (1.9 km) downstream from Little Cuyahoga River, and 4 mi (6 km) northwest of Akron City Hall.

04205700 LITTLE CUYAHOGA RIVER AT AKRON, OHIO

Lat 41°05'40", long 81°31'18", Summit County, Hydrologic Unit 04110002, on right bank 900 feet (274 m) downstream from Ohio Canal, and 1.9 mi (3.1 km) upstream from mouth.

04202000 CUYAHOGA RIVER AT HIRAM RAPIDS, OHIO

Lat 41°20'26", long 81°10'01", in T.5 N., R.7 W., Portage County, Hydrologic Unit 04110002, on left bank at downstream side of bridge on Winchell Road at Hiram Rapids, 0.6 mi (1.0 km) downstream from Black Brook.

04210090 MONTVILLE DITCH AT MONTVILLE, OHIO

Lat 41°36'04", long 81°03'03", Geauga County, Hydrologic Unit 04110004, at culvert on State Highway 528, 0.4 mi (0.6 km) south of Montville.

04210100 HOSKINS CREEK AT HARTSGROVE, OHIO

Lat 41°36'00", long 80°57'12", Ashtabula County, Hydrologic Unit 04110004, at culvert on State Highway 534, 0.4 mi (0.6 km) south of Hartsgrove, 4,000 feet downstream from former site.

04212600 HUBBARD RUN TRIBUTARY AT ASHTABULA, OHIO

Lat 41°50'38", long 80°46'42", Ashtabula County, Hydrologic Unit 04110003, at culvert on Seven Hills Road, 0.5 mi (0.8 km) upstream from mouth, and 1.6 mi (2.6 km) south of the center of Ashtabula.

04213040 RACCOON CREEK NEAR WEST SPRINGFIELD, PENNSYLVANIA

Lat 41°56'42", long 80°26'51", Erie County, Hydrologic Unit 04120101, on right bank 12 feet (3 m) upstream from highway bridge on Sanford Road, 1.4 mi (2.2 km) east of West Springfield, 4.4 mi (7.1 km) upstream from mouth, and 7.0 mi (11.3 km) southwest of Girard.

04213200 MILL CREEK AT ERIE, PENNSYLVANIA

Lat 42°05'54", long 80°04'35", Erie County, at bridge on West 38th Street, 100 feet (31 m) west of State Highway 505, at Erie.

CANADAWAY CREEK AT FREDONIA, NEW YORK

Lat 42°27'03", long 75°21'04", Cattaraugus County, at bridge on Matteson Street in Fredonia, and 2.5 mi (4.0 km) upstream from mouth.

04213490 SOUTH BRANCH CATTARAUGUS CREEK NEAR OTTO, NEW YORK

Lat 42°21'54", long 78°48'06", Cattaraugus County, at highway bridge on East Otto Road, 0.2 mi (0.3 km) upstream from Mansfield Creek, and 1.7 mi (2.7 km) northeast of Otto.

04214040 DELAWARE CREEK NEAR ANGOLA, NEW YORK

Lat 42°37'46", long 79°03'15", Erie County, at bridge on State Highway 5, 1.5 mi (2.4 km) southwest of Angola, and 1.6 mi (2.6 km) upstream from mouth.

04214200 EIGHTEENMILE CREEK AT NORTH BOSTON, NEW YORK

Lat 42°41'04", long 78°46'41", Erie County, on left bank 60 feet (18.3 m) upstream from bridge on Zimmerman Road, at North Boston, 1.4 mi (2.3 km) downstream from mouth of Irish Gulf, and 2.75 mi (4.4 km) southeast of Hamburg.

**SASHABAW CREEK
NEAR
DRAYTON PLAINS, MICHIGAN**

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CLINTON RIVER

STREAM : SASHABAW CREEK

LOCATION W/CODE : NEAR DRAYTON PLAINS, MICH

USGS NO. 04160000

SAMPLING TIME DATE 2400 YR NO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJEL MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SIG2 MG/L	IRON MG/L	COND 25C. UMMO
77 3 3 1930	4.7	.034	.005	.450	.142		.020		13.00	39.00	9.10		310.
77 3 4 1315	10.1	.043	.004	.470	.156		.750		19.00	33.00	9.20		305.
77 3 4 1850	16.9	.092	.007	.510	.160		.970		19.00	36.00	8.70		485.
77 3 4 2400	19.4	.127	.014	.570	.195		1.260		19.00	34.00	7.80		445.
77 3 5 705	10.0	.084	.014	.580	.190		.950		10.00	34.00	7.30		440.
77 3 5 1135	17.9	.070	.011	.560	.157				14.00	32.00	7.60		445.
77 3 5 1055	15.2	.050	.010	.540	.141		.830		8.00	28.00	8.30		460.
77 3 6 50	13.7	.051	.013	.540	.145		.830		6.00	26.00	8.30		475.
77 3 6 645	12.5	.051	.009	.520	.144		.850		2.00	25.00	8.60		470.
77 3 6 1125	11.5	.054	.011	.540	.144		.950		7.00	24.00	8.60		470.
77 3 6 1045	11.3	.045	.008	.520	.119		.700		5.00	24.00	8.60		470.
77 3 7 55	11.0	.052	.010	.500	.134		.810		4.00	24.00	8.70		460.
77 3 7 605	10.8	.047	.008	.470	.127		.770		4.00	24.00	8.80		470.
77 3 7 1140	10.6	.035	.007	.490	.128		.700		11.00	24.00	8.80		475.
77 3 7 1035	12.5	.050	.010	.490	.116		.820		12.00	24.00	8.80		465.
77 3 8 45	12.0	.040	.007	.460	.106		.800		7.00	24.00	8.40		455.
77 3 8 555	11.7	.036	.007	.430	.105		.710		3.00	22.00	8.80		470.
77 3 8 1130	11.3	.039	.005	.420	.111		.850		10.00	23.00	8.70		465.
77 3 8 1040	14.9	.048	.008	.480	.097		.840		12.00	24.00	8.50		460.
77 3 9 55	17.3	.054	.009	.370	.104		.730		27.00	22.00	7.90		430.
77 3 20 50	11.5	.038	.012	.320	.044		.670		9.00	20.00	6.90		400.
77 3 20 635	17.9	.046	.004	.360	.039		.710		13.00	29.00	6.90		465.
77 3 20 1255	24.0	.046	.003	.300	.034		.600		21.00	20.00	7.10		450.
77 3 20 1035	32.0	.047	.004	.290	.031		.710		19.00	20.00	6.90		425.
77 3 29 25	36.5	.050	.003	.270	.027		.500		10.00	25.00	6.90		415.
77 3 29 645	37.5	.047	.002	.250	.020		.620		16.00	23.00	7.20		410.
77 3 29 1225	35.5	.046	.002	.230	.008		.700		13.00	22.00	7.40		405.
77 3 29 1755	33.0	.043	.002	.210	.003		.690		6.00	22.00	7.30		425.
77 3 30 25	30.0	.039	.003	.220	.014		.820		10.00	22.00	7.40		430.
77 3 30 640	23.6	.031	.003	.250	.016		.590		20.00	22.00	7.50		430.
77 3 30 1250	25.6	.031	.001	.220	.009		.630		4.00	21.00	7.40		425.
77 3 31 35	24.0	.028	.003	.210	.019		.690		14.00	21.00	7.00		430.
77 3 31 640	22.8	.024	.002	.230	.010		.550		11.00	21.00	7.10		425.
77 3 31 1145	21.2	.024	.002	.210	.015		.600		8.00	32.00	7.90		510.
77 3 31 1040	19.7	.024	.003	.230	.010		.600		8.00	22.00	7.10		425.
77 4 1 35	19.1	.024	.002	.230	.022		.700		5.00	21.00	7.10		425.

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CLINTON RIVER

STREAM : SASHABAW CREEK

LOCATION W/CODE : NEAR DAYTON PLAINS, MICH

USGS NO. 09160800

SAMPLING TIME DATE 2460 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPENDED SOLIDS MG/L	CHLOR RIDE MG/L	S102 MG/L	IRON MG/L	COND 25C. UMMO
77 4 1 640	18.2	.026	.002	.230	.020		.480		5.00	21.00	7.10		425.
77 4 1 1150	17.3	.023	.004	.220	.014		.500		6.00	22.00	7.10		440.
77 4 1 1900	16.7	.022	.003	.220	.012		.540		4.00	22.00	7.10		440.
77 4 25 005	26.4	.036	.003	.101	.025		.800		3.00	23.00	5.60		420.
77 4 25 1505	31.0	.033	.001	.039	.022		.700		3.00	21.00	5.90		410.
77 4 25 1045	31.5	.043	.001	.040	.006		.810		13.30	20.00	6.00		400.
77 4 26 426	29.5	.033	.002	.041	.013		.810		6.00	20.00	5.90		410.
77 4 26 620	26.8	.029	.001	.038	.008		.780		4.00	20.00	5.50		410.
77 4 26 1155	24.8	.027	.001	.030	.008		.790		3.00	20.00	5.40		410.
77 4 26 1040	22.4	.025	.001	.032	.007		.750		2.00	20.00	5.20		410.
77 4 27 35	20.8	.029	.001	.033	.013		.800		7.00	20.00	4.80		415.
77 4 27 630	19.4	.027	.001	.033	.006		.810		4.00	19.60	5.00		420.
77 4 27 1200	18.5	.022	.001	.034	.007		.770		3.00	19.80	4.90		415.
77 4 27 1045	17.3	.025	.001	.022	.003		.670		2.00	20.00	4.60		415.
77 4 28 40	16.7	.031	.001	.033	.008		.800		7.00	21.00	4.40		420.
77 4 28 635	15.8	.033	.001	.036	.008		.810		3.00	20.00	4.30		430.
77 4 28 1205	14.9	.022	.001	.034	.005		.790		5.00	20.00	4.40		430.
77 4 28 1055	11.3	.022	.001	.028	.006		.810		5.00	20.00	4.30		430.
77 4 29 40	13.3	.023	.001	.038	.012		1.060		2.00	21.00	4.20		435.
77 4 29 640	11.2	.018	.001	.039	.007		.680		2.00	21.00	4.20		435.
77 4 29 1205	12.0	.017	.001	.037	.003		.560		2.00	21.00	4.30		435.
77 4 29 1045	11.5	.018	.001	.058	.003		.640		2.00	20.00	3.80		430.
77 4 30 40	11.0	.026	.001	.044	.008		.850		3.00	21.00	3.70		435.
77 5 16 040	3.5	.029	.010	.042	.013		.590		4.00	24.00	1.84		450.
77 6 13 810	5.2	.035	.009	.084	.004		.580		3.00	27.00	2.10		460.
77 6 27 025	1.2	.040	.010	.192	.002		.710		3.00	35.00	4.30		470.

HONEY CREEK SUBSTATION A
TRIBUTARY BELOW MOHAWK LAKE
ON ROUTE 231

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : MONEY CREEK

STREAM : MONEY CREEK

LOCATION W/CODE : AT ROUTE 231

MONEY CR. SUB STA. NO. A

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJEL MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
76 8 6 1310			.090	.400	.160				6.00	51.00		.38	739.
76 8 17 1335		.157	.090	.100	.050				17.40	46.00			735.
76 8 25 920		.125	.120	.200	.030				11.50	59.00			782.
76 9 8 940		.214	.138	.080	.030				34.00	48.80			783.
76 9 14 1415		.150	.135	.080	.072				10.80	50.30			790.
76 9 17 1400		.137	.088	.030	.068				19.90	47.80			774.
76 9 21 1405	.10	.166	.124	.170	.100				16.50	50.00			664.
76 9 28 1410	.11	.124	.053	.370	.113				18.90	46.50			822.
76 10 4 1155	.11	.092	.074	.120	.135				15.90	50.70			816.
76 10 7 903	.12	.124	.105	.120	.066				8.90	52.30			857.
76 10 12 1545	.11	.090	.068	.120	.279				8.40	53.50		.17	794.
76 10 19 850	.12	.102	.110	.110	.060				12.50	56.70			858.
76 10 20 955	.14	.120	.063	.070	.043				11.70	56.00			870.
76 10 26 1420	.12	.138	.094	.100	.052				9.50	65.80		.38	859.
76 11 2 1745	.12	.095	.026	.110	.055				14.60	46.80	4.88	.41	860.
76 11 9 1350	.13	.122	.038	.170	.052				8.60	49.90	5.75		903.
76 11 16 1410	.13	.135	.022	.090	.108				24.30	48.90	5.44		892.
76 12 16 955	.13	.089	.028	.120	.093				8.90	56.40	8.76		971.
77 2 10 925		.079		.210	.442		.598		5.20	59.20	11.40		956.
77 2 13 1405	.06	.191	.107	.410	.514		1.420		33.60	62.60	9.29		884.
77 2 22 1430	.14	.237	.159	.630	.479		1.560		11.90	69.30	8.59	.53	892.
77 2 23 925	.46	.175	.065	.470	.429		.660		30.40	53.40	9.08	1.07	843.
77 2 23 1505	1.10	.285	.107	.980	.520		1.270		54.40	53.00	7.08	1.40	694.
77 2 24 820	.57	.399	.202	1.520	.452		2.750		71.20	29.80	3.24	3.02	266.
77 2 24 1455	.60	.406	.185	1.630	.409		1.940		75.50	42.70	3.51	2.94	289.
77 2 25 935	.23	.336	.170	2.470	.342		1.760		37.80	35.70	3.88	2.30	281.
77 2 26 1015	.82	.276	.144	2.570	.424		3.300		41.00	38.00	4.20		320.
77 2 27 1435	.56	.361	.114	4.110	.333		1.700		114.00	46.90	5.80		413.
77 2 28 950		.355	.121	5.080	.258		1.900		70.00	42.30	5.70		369.
77 3 19 1425	.06	.339	.101	6.240	.210		1.370		53.60	40.10	6.52	7.40	389.
77 4 3 1750	5.00	.449	.086	3.780	.179		1.700		76.60	25.20	8.14	15.60	361.
77 4 4 948	3.50	.592	.103	3.870	.176		2.300		80.60	21.90	7.36	17.00	340.
77 4 21 830	1.15	.290	.212	.500	.080		.665			75.90		.50	924.
77 4 21 1340	1.14	.170	.094	.310	.167		.876		12.40	160.00	3.33	.60	1446.
77 4 25 859	1.65	.233	.050	4.530	.553		1.720		47.00	39.00		3.10	946.
77 4 27 1005	1.64		.024	2.290	.324		1.640		56.50	41.10	8.88		601.

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : MONEY CREEK

STREAM : MONEY CREEK

LOCATION W/CODE : AT ROUTE 231

MONEY CR. SUB STA. NO. A

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJEL MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
77 5 4 1347	22.50	.153	.022	4.380	.283		1.730		25.50	34.50	7.86		583.
77 5 4 1953	35.00	.233	.023	2.990	.218		1.650		43.20	38.10	6.85		554.
77 5 5 837	49.00	.280	.015	2.010	.133		1.960		34.00	40.60	7.03		493.
77 6 9 905	1.35	.080	.022	.700	.160		.900		16.10	44.50	11.20		741.
77 6 23 934	1.10	.154	.063	.330	.133		1.390		25.90	56.10	4.50		805.
77 8 2 1437	1.15	.099	.098	.130	.070				18.40	51.70	7.26		794.

HONEY CREEK SUBSTATION AA
TRIBUTARY ABOVE MOHAWK LAKE
ON TOWNSHIP ROAD 151

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : MONEY CREEK

STREAM : MONEY CREEK

LOCATION W/CODE : AT TOWNSHIP RD. 151

MONEY CR. SUB STA. NO. AA

SAMPLING DATE YR MO DY	TIME 2400 HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLOR RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHC
77	2 13 1420	.160	.421	.218	3.790	.604		3.110		63.30	33.80	3.08		270.
77	2 22 1425	.350	.406	.106	2.140	.308		2.590		305.00	31.00	3.75	4.21	265.
77	2 23 920	8.000	.572	.376	2.010	.871		2.220		49.00	35.00	3.31	1.10	256.
77	2 23 1500	12.000	.565	.254	1.740	.552		1.960		138.00	27.90	3.49	3.02	228.
77	2 24 815	.440	.438	.191	2.320	.345		2.980		131.00	26.20	3.06	3.63	209.
77	2 24 1450	.060	.413	.174	2.730	.307		1.620		134.00	87.00	3.93	4.28	243.
77	2 25 930	.001	.319	.130	3.850	.281		1.910		82.00	37.70	4.51	2.57	292.
77	2 26 1257	.000	.151	.103	4.120	.226		1.850		8.60	45.00	4.85		356.
77	2 27 1430	.004	.422	.148	7.230	.214		2.030		128.00	40.50	6.65		349.
77	2 28 945		.258	.103	7.740	.217		1.350		39.20	46.20	6.63		398.
77	3 19 1435	4.600	.199	.084	4.000	.119		1.380		30.50	44.00	7.41	3.18	417.
77	4 3 1755	10.000	.362	.078	5.070	.108		2.700		45.10	22.20	8.85	13.00	340.
77	4 4 937	4.200	.278	.062	5.490	.308		2.200		23.60	25.50	8.16	5.80	397.
77	4 21 825	.160	.051		.890	.062		.882			59.80		.60	616.
77	4 21 1325	.150	.059	.010	.610	.040		.902		4.00	57.90	3.14	.50	583.
77	4 25 851	2.800	.130	.053	7.820	.143		1.600		10.10	36.60		1.50	494.
77	4 27 1000	2.500		.046	6.350	.069		1.250		10.30	34.80	8.00		483.
77	5 4 1340	42.500	.716	.070	8.910	.300		3.510		193.00	31.70	9.20		349.
77	5 4 1950	32.000	.495	.075	9.450	.451		2.880		79.40	25.00	8.44		387.
77	5 5 630	12.500	.286	.104	5.480	.551		2.210		26.20	22.90	7.62		439.
77	6 9 900	.000	.025	.010	.280	.071		.414		1.60	63.20	3.29		703.
77	6 23 930	.004	.034	.001	.070	.115		.870		13.10	93.80	1.90		948.
77	8 2 1430	.004		.005	.040	.052				20.40	109.00	5.13		1023.

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HONEY CREEK SUBSTATION 1
HONEY CREEK AT ROUTE 231

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : MONEY CREEK

STREAM : MONEY CREEK

LOCATION W/CODE : AT ROUTE 231

MONEY CR. SUB STA. NO. 1

SAMPLING DATE	TIME 24.0 YR MO DY HMS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHOPHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL NUTRIENT MG/L	COD MG/L	SUSPENDED SOLIDS MG/L	CHLORIDE MG/L	S102 MG/L	IRON MG/L	COND 25C. UMMU
76	8 6 1320	3.4		1.435	1.000	2.300				190.00	100.00		7.00	1444.
76	8 11 950	16.4	.183	.120	2.000	.040				38.00	24.00			448.
76	8 17 1340	9.5	.144	.100	1.000	.030				33.30	23.00			580.
76	8 25 907	1.9	.094	.060	.100	.020				30.50	27.00			644.
76	9 4 945	2.1	.216	.108	.650	.029				6.40	28.70			681.
76	9 14 1405	4.1	.093	.054	.630	.019				21.30	34.90			650.
76	9 17 1405	4.7	.096	.044	.240	.023				21.40	36.80			667.
76	9 21 1410	4.3	.100	.040	.160	.030				27.00	35.00			816.
76	9 24 1415	64.2	.035	.018	.650	.076				11.50	34.40			713.
76	10 4 1200	4.1	.077	.071	2.240	.070				19.80	38.40			610.
76	10 7 5.9	6.6	.070	.071	1.370	.038				21.30	35.80			687.
76	10 12 1553	8.5	.020		.041	.054				10.40	36.80		.47	678.
76	10 19 855	3.4	.037		.030	.012				7.90	40.00			780.
76	10 20 1000	3.6	.026	.027	.670	.020				8.40	39.40			783.
76	10 26 1425	9.1	.014		.100	.020				4.10	52.30		.28	716.
76	11 2 1750	9.9	.020		.810	.029				5.80	34.00	4.48	.35	733.
76	11 9 1355	4.9	.032		.500	.013				5.60	37.40	2.26		752.
76	11 16 1414	4.5		.013	.630	.018				3.40	34.10	1.59		762.
76	12 16 1000	2.1	.016		.840	.033				6.30	39.90	5.14		914.
77	2 10 935	1.1	.016		1.020	.039		.632		5.70	39.90	10.10		915.
77	2 13 1435	1.9	.229	.127	1.870	.634		2.350		16.10	41.70	7.42		715.
77	2 22 1435	18.1	.213	.102	3.320	.778		2.110		8.50	66.70	7.86	.94	697.
77	2 23 930	158.2	.404	.215	2.210	.807		2.870		75.20	41.80	5.23	1.21	404.
77	2 23 1510	311.4	.595	.166	1.810	.668				254.00	34.90	4.43	3.06	327.
77	2 24 825	657.7	.626	.133	2.550	.468		4.250		260.00	33.80	3.59	6.69	280.
77	2 24 1500	931.5	.544	.144	2.910	.452		2.710		217.00	38.00	3.87	5.52	241.
77	2 25 940	1045.2	.366	.140	3.940	.407		2.560		45.10	35.40	4.41	2.90	285.
77	2 26 1010	1107.4	.246	.090	5.290	.266		1.960		62.40	37.10	4.82		315.
77	2 27 1440	836.4	.249	.091	6.650	.293		1.530		66.70	41.60	6.65		386.
77	2 28 955	553.7	.233	.053	7.600	.281		2.460		38.80	42.40	6.61		426.
77	3 19 1400	427.3	.297	.128	7.430	.244		1.570		65.10	37.00	6.65	5.50	351.
77	4 3 1747	1026.0	.488	.115	5.090	.188		2.100		94.30	23.40	7.50	14.20	346.
77	4 4 950	1026.0	.461	.101	6.330	.326		2.200		62.00	23.90	8.70	11.30	358.
77	4 21 940	1026.0	.062	.010	1.360	.073		.766		8.20	29.80		.60	641.
77	4 21 1345	1026.0	.062	.010	1.240	.040		.812		9.00	31.80	2.87	.40	640.
77	4 25 534	314.1	.230	.082	7.870	.433		1.940		39.60	32.80		3.20	500. 13

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : MONEY CREEK

STREAM : MONEY CREEK

LOCATION W/CODE : AT ROUTE 231

MONEY CR. SUB STA. NO. 1

SAMPLING TIME DATE 2400 YR MO DY MRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLOR RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
77 4 27 1010	244.8		.049	6.360	.101		1.500		17.60	31.90	8.94		524.
77 5 4 1351	369.1	.255	.081	8.180	.424		1.530		77.80	25.10	8.86		442.
77 5 4 1956	721.1	.477	.087	4.780	.196		2.840		115.00	25.10	7.45		450.
77 5 5 845	657.7	.329	.034	3.510	.184		2.646		62.50	25.36	6.10		431.
77 6 9 948	7.6	.051	.007	.440	.065		.476		17.70	28.40	7.48		720.
77 A 2 1442	4.5	.025	.007	.440	.032				24.70	22.20	7.46		540.

HONEY CREEK SUBSTATION E
BUCKEYE CREEK AT ROUTE 67

LAKE EPIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : HONEY CREEK

STREAM : BUCKEYE CREEK

LOCATION W/CODE : AT ROUTE 67

HONEY CR. SUB STA. NO. E

SAMPLING TIME DATE 2400 YR MO DY MNS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLOR IDE MG/L	S102 MG/L	IRON MG/L	COND 25C. UMHO
76 8 6 1330			.100	.100	.260				8.60	21.00		.50	826.
76 8 11 1000		.080	.080	.100	.070				8.60	15.00			822.
76 8 17 1350		.080	.080	.600	.110				9.30	23.00			653.
76 8 25 938		.114	.080	.100	.100				11.70	15.00			806.
76 9 8 950		.084	.084	.470	.081				40.00	13.50			853.
76 9 14 1430		.064	.064	.045	.061				9.60	13.80			799.
76 9 17 1415		.064	.064	.090	.076				7.70	13.50			777.
76 9 21 1420	.10	.040	.087	.100	.050				5.90	37.00			773.
76 9 28 1423	.11	.096	.063	.640	.102				12.20	36.30			584.
76 10 4 1207	.10	.074	.074	.100	.109				5.60	25.60			823.
76 10 7 919	.10	.084	.084	.060	.069				10.20	21.30			857.
76 10 12 1602	.10	.027		.030	.043				7.70	30.60		.32	837.
76 10 19 905	.10	.023		.020	.034				7.40	24.20			896.
76 10 20 1010	.11	.054	.054	.050	.038				4.50	24.50			879.
76 10 26 1435	.12	.039		.022					5.60	49.60			840.
76 11 2 1500	.12	.039	.010	.270	.036				4.30	34.60	8.78	.37	764.
76 11 9 1405	.10	.029	.010	.050	.016				6.30	23.90	6.24		846.
76 11 16 1424	.10	.022	.020	.040	.034				6.10	19.70	6.99		856.
76 12 16 1010	.10	.015		.070	.170				10.40	30.90	7.49		966.
77 2 10 950		.282	.012	.200	.248		1.980		239.00	27.50	11.50		895.
77 2 13 1450	.14	.865	.607	2.560	.785		4.210		16.80	29.50	5.68		448.
77 2 22 1450	.14	1.410	.920	1.260	1.340		5.610		46.40	36.70	5.45		493.
77 2 23 935	3.60	.410	.224	2.010	.628		3.560		66.20	31.10	3.07	1.96	243.
77 2 23 1515	11.50	.530	.164	1.670	.409		4.280		241.00	21.30	2.89	3.16	188.
77 2 24 430	.15	.344	.121	2.480	.287		1.570		108.00	25.30	3.59	2.88	240.
77 2 24 1505	.15	.366	.114	3.370	.275		2.010		141.00	32.70	4.17	3.88	279.
77 2 25 945	.14	.185	.079	4.470	.188		1.500		28.10	35.20	5.70	.87	363.
77 2 26 1027	.14	.084	.046	4.630	.120		1.130		12.30	35.70	6.06		414.
77 2 27 1445	.15	.233	.106	6.790	.294		2.770		49.20	44.80	6.57		406.
77 2 28 1000		.135	.022	6.410	.154		.038		14.50	42.10	8.36		490.
77 3 19 1510	17.00	.181	.092	7.530	.045		.930		19.00	36.90	8.25	2.20	429.
77 4 3 1740	20.50	.297	.107	4.860	.077		1.300		30.60	23.00	8.52	6.70	379.
77 4 4 957	12.00	.217	.071	4.770	.130		1.100		23.60	23.10	8.22	3.70	439.
77 4 21 845	2.10	.036	.010	.400	.052		.519		3.30	21.40		.79	664.
77 4 21 1350	1.55	.043	.010	.380	.020		.579		5.50	28.50	3.29	.50	654.
77 4 25 913	10.75	.105	.049	5.250	.077		.747		3.20	32.90		1.00	502.

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : MONEY CREEK

STREAM : BUCKEYE CREEK

LOCATION W/CODE : AT ROUTE 67

MONEY CR. SUB STA. NO. E

SAMPLING TIME	FLOW	TOTAL	ORTHO	NO-2	NH-3	ORG.	TOTAL	COD	SUSPEND	CHLO	SIO2	IRON	COND
DATE 2400	CFS	PHOS.	PHOS.	NO-3		NIT.	KJELD		SOLIDS	RIDE			25C.
YR MO DY HRS.		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UMHO
77 4 27 1020	8.50		.037	5.800	.047		1.160		5.30	32.10	8.10		515.
77 5 4 1400	47.00	.497	.092	6.480	.114		2.230		109.00	27.00	11.10		330.
77 5 4 2003	35.00	.467	.087	8.450	.348		2.750		55.20	42.20			391.
77 5 5 854	21.00	.307	.115	6.500	.457		1.910		10.50	23.20	7.90		426.
77 6 9 917	.15	.029	.006	.140	.079		.187		4.60	13.20	7.97		835.
77 6 23 948	.15	.054	.014	.100	.056		.190		6.00	15.00	7.31		816.
77 8 2 1453	.15		.017	.040	.104				15.30	13.70	6.46		768.

HONEY CREEK SUBSTATION 3
HONEY CREEK UPSTREAM FROM SILVER CREEK
ON TOWNSHIP ROAD 58

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : HONEY CREEK

STREAM : HONEY CREEK

LOCATION W/CODE : AT TOWNSHIP ROAD 58

HONEY CR. SUB STA. NO. 3

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHU
76 8 6 1340	2.5		.070	2.600	.060				9.50	24.00		.30	614.
76 8 11 1029	9.6	.222	.170	2.700	.050				30.00	26.00			441.
76 8 17 1405	7.2	.167	.160	1.400	.040				18.00	24.00			560.
76 8 25 1055	1.4	.100	.100	2.000	.070				8.00	22.00			603.
76 9 8 1005	1.7	.132	.126	1.730	.041				80.00	47.20			608.
76 9 14 1447	3.0	.161	.080	.380	.020				21.00	50.10			611.
76 9 17 1503	2.8	.383	.383	1.000	.056				31.00	46.20			579.
76 9 21 1440	3.2	.134	.110	.650	.060				14.00	44.00			580.
76 9 28 1530	52.1	.375	.100	.890	.186				96.00	41.20			532.
76 10 4 1240	3.2	.111	.111	3.230	.072				11.00	45.40			582.
76 10 7 930	4.6	.105	.105	2.550	.052				4.00	44.60			615.
76 10 12 1632	3.7	.081	.065	1.100	.037				3.30	49.10		.16	628.
76 10 19 943	2.6	.051	.047	.250	.036				4.90	50.80			684.
76 10 20 1045	2.7	.056	.044	.340	.020				2.60	50.10			680.
76 10 26 1505	7.2	.168	.144	.280	.034				5.10	67.10		.29	760.
76 11 2 1530	7.4	.123	.084	2.570	.036				4.10	44.40	6.14	.25	674.
76 11 9 1435	3.7	.063	.038	2.170	.017				4.50	41.70	3.82		689.
76 11 19 1503	2.4	.029	.023	1.240	.022				4.80	46.00	1.52		735.
76 12 16 1055	1.6	.047		.940	.034				4.10	55.20	2.57		419.
77 2 13 1600	1.5	.631	.199	2.710	1.550		6.190		24.60	46.70	5.80		553.
77 2 22 1525	16.9	.261	.160	3.350	1.100		2.030		5.50	68.70	7.66	.51	665.
77 2 23 1000	113.2	.380	.183	2.720	1.060		3.350		37.10	54.50	6.43	1.21	523.
77 2 23 1540	234.1	.796	.185	2.200	.773		4.980		341.00	50.20	4.57	3.75	418.
77 2 24 850	669.5	.564	.166	3.140	.516		3.300		179.00	37.00	3.49	4.78	266.
77 2 24 1525	580.6	.518	.181	3.580	.472		2.710		153.00	37.40	4.28	4.58	283.
77 2 25 1015	855.3	.384	.136	4.050	.435		2.570		90.90	38.10	4.55	3.20	287.
77 2 26 1045	756.3	.227	.088	5.590	.254		.912		57.10	36.80	4.88		310.
77 2 27 1505	629.2	.239	.116	7.410	.298		1.530		36.60	41.90	6.93		395.
77 2 28 1030	411.6	.224	.045	8.610	.240		2.350		29.90	46.40	7.10		434.
77 3 19 1540	716.7	.357	.144	8.020	.291		2.030		77.90	39.10	6.57	6.70	341.
77 4 3 1730	713.7	.502	.175	5.680	.249		2.100		71.50	24.70	7.94	14.40	345.
77 4 4 1025	763.0	.453	.074	6.660	.064		3.100		49.00	24.90	7.27	10.80	373.
77 4 21 900	733.2	.084	.010	1.990	.020		1.010		4.70	34.70		.40	638.
77 4 21 1415	733.2	.086		.058	.061		.760		16.70	35.40	3.12	.40	636.
77 4 25 942	214.1	.225	.072	8.300	.434		2.050		41.10	32.80		2.80	507.
77 4 27 1040	190.1		.058	6.950	.124		1.570		15.20	32.10	9.44		542. 21

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : MONEY CREEK

STREAM : MONEY CREEK

LOCATION W/CODE : AT TOWNSHIP ROAD 58

MONEY CR. SUB STA. NO. 3

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	OMG. LIT. MG/L	TOTAL KJLLO MG/L	COD MG/L	SUSPENS SOLIDS MG/L	CHLO RIDE MG/L	S102 MG/L	IRON MG/L	COND 25C. UMHO
77 5 4 1423	312.9	.396	.075	9.250	.409		1.613		89.20	27.20	8.08		464.
77 5 4 2021	511.4	.497	.089	8.360	.496		2.650		232.00	25.10	7.59		439.
77 5 5 918	494.8	.357	.100	5.680	.290		2.430		67.30	26.70	6.44		457.
77 6 9 542	5.9	.085	.012	1.390	.032		.450		17.00	33.50	5.32		644.
77 6 23 1012	3.4	.110	.054	2.120	.060		.720		19.00	34.60	4.91		663.
77 8 2 1523	4.4	.082	.082	1.290	.034				29.40	27.40	8.59		495.

HONEY CREEK SUBSTATION 4
SILVER CREEK AT CONFLUENCE WITH HONEY CREEK
ON COUNTY ROAD 12

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : MONEY CREEK

STREAM : SILVER CREEK

LOCATION W/CODE : AT COUNTY ROAD 12

MONEY CR. SUB STA. NO. 4

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJEL MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHL RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
76 8 6 1342			.110	1.800	.050				14.00	33.00		.60	595.
76 8 11 1015		.090	.090	2.800	.040				7.50	22.00			625.
76 8 17 1400		.100	.100	1.500	.110				9.70	27.30			571.
76 8 25 1057		.166	.020	.430	.030				31.40	36.00			562.
76 9 8 1000		.076	.076	1.750	.046				32.00	21.30			618.
76 9 14 1445		.055	.055	1.990	.029				6.30	22.10			592.
76 9 17 1505		.065	.065	1.400	.037				6.90	22.80			537.
76 9 21 1435	1.15	.060	.060	1.510	.040				7.90	33.00			591.
76 9 28 1515	1.21	.047	.019	2.870	.077				4.10	24.80			593.
76 10 4 1235	1.31	.069	.069	1.050	.050				4.50	33.00			509.
76 10 7 947	1.35	.083	.083	.820	.055				4.90	30.90			558.
76 10 12 1630	1.21			1.290	.049				1.10	30.60		.12	594.
76 10 19 940	1.21	.017		1.400	.034				3.70	29.80			636.
76 10 20 1040	1.32	.040	.040	1.500	.024				4.80	31.90			639.
76 10 26 1500	1.43	.011		1.150	.022				2.90	41.70		.17	640.
76 11 2 1525	1.53	.019		.650	.032				2.30	34.30	8.52	.10	586.
76 11 9 1430	1.45	.022		.680	.016				4.60	36.40	7.48		628.
76 11 16 1501	1.35		.010	1.340	.044				6.60	35.80	4.19		666.
76 12 16 1105	1.22	.042		3.330	.103				32.10	28.40	3.81		710.
77 2 13 1610	1.85	.280	.169	3.660	.332		1.860		12.80	26.50	4.87		359.
77 2 22 1525	1.60	.107	.056	2.970	.090		.750		26.80	40.10	5.77	.43	589.
77 2 23 1005	2.60	.361	.187	2.090	.475		1.890		54.60	32.10	4.35	1.85	294.
77 2 23 1545	3.50	.497	.163	1.650	.317		3.220		208.00	24.40	3.46	2.50	228.
77 2 24 855	3.80	.353	.138	2.460	.431		2.350		80.40	32.60	4.39	2.61	280.
77 2 24 1530	18.00	.347	.117	2.630	.312		2.370		85.70	29.10	4.20	2.85	258.
77 2 25 1020	26.00	.247	.098	3.500	.308		2.080		46.20	29.30	3.99	1.31	227.
77 2 26 1040	3.60	.151	.067	5.170	.241		3.260		18.00	33.70	4.77		276.
77 2 27 1510	3.45	.175	.080	5.560	.306		1.680		24.40	37.90	6.68		345.
77 2 28 1035		.169	.019	7.200	.212		.967		21.80	43.50	6.38		385.
77 3 19 1535	.19	.265	.087	7.460	.342		1.550		48.50	34.70	6.22	5.38	309.
77 4 3 1725	200.00	.271	.066	5.070	.208		2.003		37.90	21.50	7.53	9.00	309.
77 4 4 1029	155.00	.260	.050	5.750	.231		2.030		59.10	23.20	7.67	5.80	347.
77 4 21 905	3.80	.024		1.770	.056		.699		4.20	27.80		.30	564.
77 4 21 1420	3.83	.026		1.590	.078		.489		1.10	28.30	2.67	.30	551.
77 4 25 947	66.00	.092	.026	3.530	.080		1.300		9.00	29.40		1.20	447.
77 4 27 1045	92.00		.019	3.950	.027		1.050		3.50	28.40	8.05		463.

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : HONEY CREEK

STREAM : SILVER CREEK

LOCATION W/CODE : AT COUNTY ROAD 12

HONEY CR. SUB STA. NO. 4

SAMPLING DATE	TIME	FLOW	TOTAL PHOS.	ORTHO PHOS.	NO-2	NH-3	ORG. NIT.	TOTAL KJELD	COO	SUSPEND SOLIDS	CHLO RIDE	S102	IRON	COMO 25C. UMNO
YR MO DY	HRS.	CFS	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
77	5	4	1425	132.00	.300	.015	9.640	.219		2.000	55.80	21.90	7.48	358.
77	5	4	2024	160.00	.253	.030	3.030	.065		1.500	42.10	21.60	6.88	392.
77	5	5	922	200.00	.220	.047	3.960	.119		1.680	24.00	21.00	5.57	373.
77	6	9	945	3.50	.042	.019	3.670	.053		.290	2.50	19.30	7.88	681.
77	6	23	1010	3.50	.059	.031	1.750	.077			6.20	23.00	6.87	618.
77	8	2	1526	3.13	.009		1.650	.050			16.80	21.50	6.96	585.
77	9	17	1200	4.09	.198	.095	1.950	.077			35.70	15.90	8.09	403.

HONEY CREEK SUBSTATION M
SILVER CREEK DOWNSTREAM FROM MARSH
ON COUNTY ROAD 6

HONEY CREEK SUBSTATION M
SILVER CREEK DOWNSTREAM FROM MARSH
ON COUNTY ROAD 6

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : MONEY CREEK

STREAM : SILVER CREEK

LOCATION W/CODE : AT COUNTY ROAD 6

MONEY CR. SUB STA. NO. 4

SAMPLING DATE	TIME 24:00 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPENS SOLIDS MG/L	CHLO RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UPMD
76	8 6 1358	1.04		.110	.100	.150				11.40	38.00		1.00	579.
76	8 11 1030	3.61	.142	.110	.200	.070				4.50	32.00			479.
76	8 17 1412	2.38	.110	.110	.100	.070				4.50	31.00			489.
76	8 25 1007	.79	.120	.120	.100	.080				12.90	36.00			527.
76	9 8 1010	1.07	.295	.132	.120	.045				82.40	52.20			587.
76	9 14 1455	1.68	.215	.068		.051				34.00	84.10			725.
76	9 17 1520	1.96	.213	.075	.210	.308				35.30	128.00			1059.
76	9 21 1445	2.18	.183	.100	.180	.650				44.30	96.00			1225.
76	9 24 1535	12.10	.342	.064	5.820	.102				19.10	31.10			438.
76	10 4 1247	2.72	.083	.083	.070	.035				2.70	36.50			492.
76	10 7 958	3.45	.139	.139	.050	.048				9.60	37.70			538.
76	10 12 1641	2.72	.072	.057	.010	.028				5.10	39.40		1.04	508.
76	10 19 946	2.17	.104	.053	.010					7.30	43.60			589.
76	10 20 1055	2.30	.126	.075	.070	.020				9.70	45.10			593.
76	10 26 1510	4.38	.135	.064	.280	.019				8.20	52.00		2.44	501.
76	11 2 1540	4.21	.070		.110	.036				3.60	38.50	10.60	1.00	583.
76	11 9 1440	2.72	.044	.011	.150	.019				4.90	38.30	10.10		625.
76	11 16 1516	2.52	.040	.010	.060	.035				11.20	41.00	10.60		640.
76	12 16 1115	1.68	.534		.020	.210				67.20	49.10	15.10		726.
77	2 10 1115	1.11	.708	.010	.070	.692		2.690		31.50	90.90	16.20	25.90	795.
77	2 13 1615	2.72	.206	.045	3.780	.294		2.980		43.40	103.00	3.57		518.
77	2 22 1538	6.16	.216	.024	1.830	.370		2.570		15.40	58.10	10.10	3.55	589.
77	2 23 1010	16.92	.183	.029	1.870	.339		1.360		16.20	52.40	7.45	2.26	440.
77	2 23 1550	33.23	.198	.031	1.810	.270		2.140		15.40	55.90	8.01	2.50	473.
77	2 24 900	71.00	.254	.097	2.280	.392		1.720		26.90	29.40	3.67	1.60	233.
77	2 24 1535	92.19	.273	.113	2.590	.321		1.870		30.70	31.80		.50	213.
77	2 25 1025	109.77	.246	.096	3.700	.307		2.910		9.70	29.60	4.43	1.43	225.
77	2 26 1200	170.74	.135	.065	5.660	.231		1.260		15.00	35.60	4.94		286.
77	2 27 1515	85.48	.125	.077	5.670	.203		1.070		15.20	37.90	6.88		360.
77	2 28 1040	48.21	.167	.007	8.460	.197		.851		20.00	47.60	6.89		402.
77	3 19 1609	96.08	.285	.116	8.210	.359		1.550		35.70	36.50	5.84	5.48	312.
77	4 3 1720	99.61	.286	.067	5.560	.289		2.200		25.00	22.70	7.25	9.68	302.
77	4 4 1035	98.27	.292	.022	6.180	.276		3.200		50.30	25.70	7.68	6.00	355.
77	4 21 913	4.29	.039	.010	.090	.047		.310		10.00	31.80		.50	545.
77	4 21 1425	4.29	.084		.080	.065		1.140		17.70	31.60	4.88	1.00	545.
77	4 25 955	31.81	.085	.017	3.950	.112		1.580		11.70	31.30		1.38	446.

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : MONEY CREEK

STREAM : SILVER CREEK

LOCATION #/CODE : AT COUNTY ROAD 6

MONEY CR. SUB STA. NO. M

SAMPLING TIME	FLOW	TOTAL	ORTHOPHOS.	NO-2	NH-3	ORG.	TOTAL	COD	SUSPEND	CHLOR	SIO2	IRON	COND
DATE 2400	CFS	PHOS.	PHOS.	NO-3		NIT.	KJELD		SOLIDS	RIDE			25C.
YR MO DY HRS.		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UMHO
77 4 27 1050	27.22		.016	5.300	.045		1.110		4.10	31.30	8.63		473.
77 5 4 1433	49.62	.142	.043	15.300	.541		1.110		25.70	31.20	9.87		423.
77 5 4 2028	68.72	.118	.016	2.740	.089		1.080		11.30	25.50	6.36		432.
77 5 5 928	67.72	.232	.040	5.750	.239		2.233		18.50	19.80	5.35		390.
77 6 9 954	2.45	.077	.014	.190	.037		1.080		12.60	84.90	12.20		788.
77 6 23 1025	1.01	.098	.017	.170	.080		1.220		17.70	131.00	6.86		1236.
77 8 2 1535	1.85	.050	.031	.020	.232				13.50	101.00	11.70		915.

HONEY CREEK SUBSTATION N
SILVER CREEK UPSTREAM FROM MARSH
ON TOWNSHIP ROAD 44

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : MONEY CREEK

STREAM : SILVER CREEK

LOCATION W/CODE : AT TOWNSHIP RD. 44

MONEY CR. SUB STA. NO. N

SAMPLING TIME DATE 24:00 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJEL MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	CONO 25C. UMHO
76 8 6 1355	.76		.050	.300	.010					37.00		.58	517.
76 8 11 1035	2.65	.190	.130	3.000	.090				15.00	25.00			378.
76 8 17 1420	1.75	.119	.080	.400	.130				18.90	23.00			431.
76 8 25 1011	.58	.085	.050	.100	.060				12.90	35.00			507.
76 9 8 1015	.79	.140	.095	.120	.167				42.50	43.60			541.
76 9 14 1500	1.24	.151	.079	2.650	.065				18.90	39.90			415.
76 9 17 1525	1.44	.113	.059	1.520	.122				15.40	34.90			412.
76 9 21 1455	1.75	.147		.290	.080				14.00	36.00			463.
76 9 28 1540	8.92	.359	.127	4.370	.183				56.00	29.60			413.
76 10 4 1250	2.00	.112	.091	1.800	.083				6.50	41.40			565.
76 10 7 1003	2.54	.136	.128	.600	.060				15.20	40.90			593.
76 10 12 1645	2.80	.137	.086		.045				4.10	43.40			627.
76 10 19 950	1.60	.260	.064	.010					8.40	47.60		.67	713.
76 10 20 1100	1.69	.292	.103	.350	.032				7.30	46.70			711.
76 10 26 1515	3.22	.039		1.170	.020				4.60	53.40			637.
76 11 2 1545	3.19	.026		1.740	.033				2.50	36.50	8.47	.36	644.
76 11 9 1445	2.99	.024	.012	1.170	.016				4.80	37.80	6.83		676.
76 11 16 1524	1.85	.012	.010	.370	.010				4.70	40.80	5.20		737.
76 12 16 1125	1.24	.097		.020	.097				64.70	51.70	6.63		979.
77 2 10 1130	.92	.140	.011	.150	.859		1.550		15.80	44.50	12.50		790.
77 2 13 1625	2.00	.108	.025	1.430	.459		1.910		12.00	33.90	7.74		544.
77 2 22 1550	4.53	.156	.058	3.040	.456		1.900		9.80	52.80	6.24	.51	469.
77 2 23 1015	12.44	.368	.226	2.760	.596		1.940		39.60	35.50	4.04	1.41	274.
77 2 23 1555	24.42	.413	.127	2.470	.331		3.680		155.00	29.10	3.39	1.48	213.
77 2 24 905	52.17	.327	.112	3.760	.364		2.010		90.50	30.70	3.63	3.06	226.
77 2 24 1540	67.76	.334	.105	4.300	.301		2.300		114.00	31.10	4.31	3.96	240.
77 2 25 1035	40.68	.246	.083	6.310	.244		2.040		38.90	38.80	5.63	1.54	329.
77 2 26 1100	81.39	.108	.050	6.400	.184		1.610		17.70	39.90	6.32		393.
77 2 27 1520	62.83	.252	.096	9.470	.305		2.350		61.60	51.30	6.63		448.
77 2 28 1045	35.43	.148	.005	8.590	.209		2.400		16.50	48.10	7.91		471.
77 3 19 1615	72.61	.197	.096	10.100	.186		.800		22.30	42.40	8.08	2.88	435.
77 4 3 1715	73.21	.209	.073	7.300	.156		1.750		6.60	27.90	9.96	5.40	406.
77 4 4 1042	72.23	.162	.037	6.830	.209		1.800		32.00	29.40	8.01	2.70	472.
77 4 21 911	3.15	.083		.560	.080		.676		13.10	30.10		1.10	622.
77 4 21 1430	3.15	.068		.530	.079		.593		8.00	29.50	3.86	.80	628.
77 4 25 1001	23.38	.092	.027	6.260	.261		1.380		15.10	32.30		1.20	540.

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : HONEY CREEK

STREAM : SILVER CREEK

LOCATION W/CODE : AT TOWNSHIP RD. 44

HONEY CR. SUB STA. NO. N

SAMPLING TIME	FLOW	TOTAL	ORTHO	NO-2	NH-3	ONG.	TOTAL	COD	SUSPEND	CHLO	SIO2	IRON	COND
DATE 2400	CFS	PHOS.	PHOS.	NO-3		NIT.	KJELD		SOLIDS	RIDE			25C.
YR MO DY HRS.		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UMHO
77 4 27 427	20.00		.027	9.783	.397		1.970		6.40	37.20	9.67		561.
77 5 4 1437	29.85	.552	.071	8.780	.412		2.400		178.00	25.70	8.40		406.
77 5 4 2033	50.50	.435	.057	14.000	.856		3.430		88.90	26.60	9.37		444.
77 5 5 935	49.41	.226	.010	1.450	.316		2.300		22.70	25.70	3.19		515.
77 6 9 957	1.80	.092	.034	.180	.227		.923		16.30	36.20	7.79		679.
77 6 23 1029	.74	.232	.084	.070	.211		1.090		26.00	34.90	4.82		669.
77 8 2 1540	1.36	.058	.044	.040	.034				27.90	32.00	8.73		671.

HONEY CREEK SUBSTATION 6
AICHHOLZ DITCH AT COUNTY ROAD 49

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : MONEY CREEK

STREAM : AICHMOLZ DITCH

LOCATION W/CODE : AT COUNTY RD. 49

MONEY CR. SUB STA. NO. 6

SAMPLING DATE	TIME 2450	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 MG/L	NH-3 MG/L	OMG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPENDED SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
YR	MO	DAY												
76	8	6	1405	.082	.040	.200	.110			25.90	21.00		.88	874.
76	8	11	1850	.248	.150	3.200	.110			48.70	30.00			490.
76	8	17	1425	.080	.080	.200	.060			10.00	29.00			647.
76	8	25	1819	.094	.060	.100	.090			39.70	26.00			890.
76	9	8	1825	.105	.056	.090	.052			34.40	29.10			978.
76	9	14	1515	.260	.047	.140	.022			83.30	29.10			814.
76	9	17	1535	.045	.045	.270	.031			12.40	23.30			984.
76	9	21	1510	.21	.046	.030	.100	.040		12.60	21.00			777.
76	9	28	1555	.438	.158	5.670	.132			63.10	25.80			435.
76	10	4	1305	.06	.077	.440	.054			5.10	26.50			988.
76	10	7	1815	1.40	.072	.170	.050			7.90	23.90			1033.
76	10	12	1654	.85	.025	.032	.050			2.10	27.00		.19	992.
76	10	19	1805	.19	.062	.020	.087			45.70	30.20			987.
76	10	20	1115	.83	.066	.063	.270	.349	8.110	6.00	23.20			916.
76	10	26	1530	2.90	.060	.051	1.220	.137		9.90	55.50		.48	799.
76	11	2	1555	2.65	.049	.013	1.030	.159		10.00	30.00	6.98	.39	843.
76	11	9	1500	1.70	.026	.500	.032			11.20	22.80	6.10		1015.
76	11	16	1557	.52	.012	.090	.031			5.70	21.10	4.66		1053.
77	2	13	1645	.37	.195	.081	.640	.849	1.740		44.10	6.46		1041.
77	2	22	1611	.88	.174	.057	1.090	.407	1.610	23.00	64.80	4.59	1.19	751.
77	2	23	1825	5.70	.493	.253	2.900	.900	3.160	187.00	33.10	4.85	2.16	330.
77	2	23	1605	15.50	.635	.150	2.690	.496	4.250	51.40	25.30	3.29	3.85	246.
77	2	24	915	47.00	.504	.200	4.110	.504	2.540	177.00	34.10	3.78	4.20	252.
77	2	24	1559	40.00	.434	.193	4.830	.410	2.570	136.00	35.50	4.68	3.28	270.
77	2	25	1845	7.70	.276	.128	6.910	.276	2.000	46.30	42.00	5.60	.92	352.
77	2	26	1108	5.40	.164	.095	6.900	.210	1.200	13.80	42.80	5.91		395.
77	2	27	1530	10.50	.307	.138	9.980	.345	1.340	56.60	51.80	7.69		443.
77	2	28	1855		.194	.054	9.760	.242	1.860	15.60	53.70	7.97		481.
77	3	19	1630	170.00	.352	.108	9.490	.369	2.290	54.40	40.30	7.16	6.88	362.
77	4	3	1705	34.50	.263	.114	7.440	.076	1.300	25.90	26.70	9.66	6.28	485.
77	4	4	1856	25.50	.186	.073	6.660	.060	1.400	24.80	27.30	7.21	2.88	473.
77	4	21	930	13.50	.052		.430	.065	.474	6.40	26.30		.78	867.
77	4	21	1445	15.50	.055		.310	.029	.360	10.20	25.40	6.46	.60	856.
77	4	25	1814	20.80	.103	.038	7.070	.158	1.400	14.70	31.98		1.10	527.
77	4	27	1105	22.09	.033		8.990	.102	1.340	9.00	33.70	8.52		581.
77	5	4	1450	100.00	.623	.059	10.700	.439	3.580	171.00	26.60	9.58		443.

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : HONEY CREEK

STREAM : AICHHOLZ DITCH

LOCATION W/CODE : AT COUNTY RD. 49

HONEY CR. SUB STA. NO. 6

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
77 5 4 2042	76.00	.464	.108	15.700	1.260		3.980		74.40	27.20	9.24		468.
77 5 5 949	35.50	.257	.059	6.020	.291		3.050		26.00	25.00	6.16		518.
77 6 9 1010	13.50	.038	.002	.310	3.000		.180		9.90	23.40	6.42		994.
77 6 23 1042	7.80	.038	.003	.200	.042				15.70	23.50	4.39		1055.

HONEY CREEK SUBSTATION 5
HONEY CREEK UPSTREAM FROM AICHHOLZ DITCH
ON COUNTY ROAD 49

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : MONEY CREEK

STREAM : MONEY CREEK

LOCATION W/CODE : AT COUNTY ROAD 49

MONEY CR. SUB STA. NO. 5

SAMPLING DATE	TIME 24'0	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL NITRO MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
YR	MO	DAY	HRS.											
76	8	6	1410	1.99	.100	.100	.010			20.30	39.00	6.60	.00	586.
76	8	11	1055	7.51	.083	.080	2.800	.040		13.60	21.60			819.
76	8	17	1430	5.66	.264	.100	.100	.020		41.20	43.30			613.
76	8	24	1024	1.10	.209	.080	.100	.050		29.70	41.60			630.
76	9	8	1420	1.32	.238	.150	.340	.033		14.60	44.10			564.
76	9	14	1514	2.32	.185	.073	.510			24.90	46.30			577.
76	9	17	1530	2.21	.150	.064	.230	.051		22.60	44.70			571.
76	9	21	1505	2.53	.241	.080	.590	.020		52.50	47.60			571.
76	9	28	1550	46.74	.474	.164	4.840	.141		98.70	30.70			370.
76	10	4	1300	2.53	.141	.109	2.600	.077		31.30	50.80			616.
76	10	7	1012	3.60	.150	.103	1.560	.056		41.40	48.60			637.
76	10	12	1655	2.87	.143	.053	.670	.033		26.50	54.80		.83	698.
76	10	19	1300	2.00	.122	.067	.010	.020		12.10	55.60			735.
76	10	20	1110	2.12	.315	.081	.050	.024		21.50	53.40			724.
76	10	26	1325	5.66	.181	.116	1.140	.259		15.10	65.80		.85	744.
76	11	2	1550	5.82	.128	.061	2.000	.242		8.50	48.10	8.55	.58	731.
76	11	9	1455	2.87	.110	.039	2.110	.021		9.30	46.80	6.97		741.
76	11	16	1550	2.64	.061	.043	1.150	.054		4.30	46.70	3.95		770.
76	12	16	1135	1.24	.132	.034	.930	.113		9.40	67.40	2.35		1024.
77	2	10	1150	.65	.171	.033	.220	2.000	4.890	25.70	74.80	12.00		1041.
77	2	13	1635	1.17	.155	.070	.860	2.000	5.000	11.50	91.50	9.12		990.
77	2	22	1605	13.22	.269	.163	3.450	.980	2.550	5.10	70.40	8.55	.54	667.
77	2	23	1020	88.61	.401	.271	2.910	1.000	2.410	31.40	51.10	5.16	.98	440.
77	2	23	1600	183.20	.390	.194	2.560	.640		50.20	42.90	4.24	1.23	351.
77	2	24	910	523.55	.364	.173	3.100	.560	1.860	48.50	37.30	3.59	2.10	274.
77	2	24	1545	454.30	.410	.200	3.380	.445	2.180	63.80	36.70	4.01	2.75	286.
77	2	25	1040	664.20	.321	.133	4.050	.460	1.980	52.00	37.20	4.21	.74	275.
77	2	26	1115	591.80	.195	.088	5.900	.247	1.980	40.70	37.40	5.09		313.
77	2	27	1525	489.74	.217	.075	7.590	.229	1.300	35.30	42.00	6.37		464.
77	2	28	1050	322.10	.204	.036	8.770	.266	1.320	34.70	45.80	7.37		452.
77	3	14	1625	560.90	.196	.144	8.280	.359	1.430	21.40	40.80	6.75	2.30	425.
77	4	3	1701	558.40	.496	.154	5.900	.224	3.200	63.40	24.90	7.90	15.00	338.
77	4	4	1542	597.02	.444	.104	6.940	.325	5.700	54.60	25.60	4.86	10.30	374.
77	4	21	525	573.66	.167	.013	1.650	.024	1.170	46.50	32.30		2.40	650.
77	4	21	1420	573.66	.141	.010	1.690	.061	1.210	21.10	31.50	5.12	1.60	650.
77	4	25	1011	183.28	.206	.076	4.260	.426	2.400	37.10	32.70		2.60	511.

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : HONEY CREEK

STREAM : HONEY CREEK

LOCATION W/CODE : AT COUNTY ROAD 49

HONEY CR. SUB STA. NO. 5

SAMPLING DATE	TIME	FLOW	TOTAL PHOS.	ORTHO PHOS.	NO-2	NH-3	ORG. NIT.	TOTAL KJELD	COD	SUSPEND SOLIDS	CHLO RIDE	SIO2	IRON	COND 25C. UNH0
YR MO DY	MRS.	CFS	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
77 4 27	1855	148.73		.052	6.740	.226		1.860		26.50	32.50	9.14		544.
77 5 4	1447	244.94	.430	.081	15.800	.597		2.213		119.00	30.80	9.88		428.
77 5 4	2140	400.10	.487	.071	6.920	.334		2.270		111.00	21.90	7.81		383.
77 5 5	942	387.15	.388	.044	10.300	2.000		2.570		93.20	25.30	6.83		433.
77 6 9	1067	4.57	.133	.061	2.460	.060		1.350		56.50	36.80	8.32		680.
77 6 23	1037	2.64	.202	.046	1.370	.056		1.430		43.20	41.30	6.13		730.
77 8 2	1552	3.47	.127	.062	.840	.035				45.80	27.50	9.06		506.

HONEY CREEK SUBSTATION 7
HONEY CREEK AT ROUTE 4

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : HONEY CREEK

STREAM : HONEY CREEK

LOCATION W/CODE : AT ROUTE 4

HONEY CR. SUM STA. NO. 7

SAMPLING DATE	TIME 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHOPHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLOR RIDE MG/L	SI02 MG/L	INOM MG/L	COND 25C. UMHO
76	8 11 1110	6.00	.337	.110	2.100	.230				127.00	34.00			569.
76	8 17 1443	4.50	.336	.120	.700	.120				134.00	44.00			628.
76	8 25 1034	.87	.290	.150	.100	.180				58.00	44.00			655.
76	9 8 1045	1.06	.340	.129	.130	.223				39.10	54.90			672.
76	9 14 1500	1.84	.193	.039	.720	.071				54.40	42.20			575.
76	9 17 1545	1.76	.251	.070	.690	.220				78.20	54.90			537.
76	9 21 1520	2.01	.248	.050	.800	.280				71.20	60.00			677.
76	9 28 1605	32.40	.346	.109	7.890	.127				47.30	43.10			516.
76	10 4 1315	2.01	.179	.097	2.950	.319				47.20	45.40			697.
76	10 7 1030	2.84	.177	.101	1.270	.280				56.40	48.60			643.
76	10 12 1710	2.28	.347	.017	.470	.050				50.70	51.40		1.40	745.
76	10 19 1020	1.60	.439	.275	.070	.333				23.90	59.60			807.
76	10 20 1130	1.68	.223	.091	.030	.023				21.20	50.50			717.
76	10 26 1540	4.50	.245	.133	2.950	.146				46.70	63.90		2.00	679.
76	11 2 1620	4.63	.234	.117	3.280	.172				26.30	41.20	8.59	1.42	609.
76	11 9 1510	2.28	.128	.052	1.420	.137				13.20	42.20	6.93		764.
76	11 16 1607	2.10	.107	.050	.710	.010				9.80	43.60	4.40		813.
76	12 16 1205	1.00	.288	.142	.520	.971				19.60	74.70	6.23		990.
77	2 13 1700	.93	1.070	.678	2.870	1.540		4.970		23.10	106.00	7.69		870.
77	2 22 1620	10.51	.306	.149	3.520	.975		2.430		28.80	63.10	7.61	.99	644.
77	2 23 1035	70.43	.752	.566	3.680	1.360		2.910		26.10	55.50	6.04	1.07	495.
77	2 23 1615	145.61	.563	.332	3.260	.897		3.850		66.00	49.10	5.23	1.15	461.
77	2 24 925	416.20	.429	.182	3.690	.546		2.160		63.80	38.30	3.86	3.14	278.
77	2 24 1600	361.10	.505	.150	3.810	.511		2.640		164.00	37.60	4.03	5.00	265.
77	2 25 1043	531.90	.328	.112	5.160	.299		2.170		102.00	36.60	4.68	2.85	297.
77	2 26 1123	470.40	.203	.083	6.600	.261		2.510		42.70	37.90	5.58		348.
77	2 27 1535	391.30	.268	.051	8.280	.175		1.720		71.30	44.40	6.18		439.
77	2 28 1100	246.00	.201	.031	8.960	.238		1.680		29.20	124.00	7.23		447.
77	3 19 1645	445.70	.286	.064	9.460	.329		2.200		52.90	32.80	7.26	5.00	390.
77	4 3 1650	443.70	.488	.114	7.010	.242		3.550		75.60	25.40	8.84	14.50	357.
77	4 4 1108	474.60	.342	.074	7.210	.151		3.220		75.10	26.70	8.61	7.20	407.
77	4 21 940	456.00	.843	.070	4.270	.552		4.490		362.00	22.40		26.30	465.
77	4 21 1500	456.00	.441	.036	4.080	.305		3.510		153.00	23.30	5.79	11.30	474.
77	4 25 1027	145.60	.167	.056	7.530	.334		1.840		31.30	31.50		2.30	539.
77	4 27 1110	119.22		.633	6.980	.201		1.680		34.40	33.80	8.93		557.
77	5 4 1502	194.62	.509	.361	10.800	.426		2.830		122.00	26.90	10.80		452. 45

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : MONEY CREEK

STREAM : MONEY CREEK

LOCATION W/CODE : AT ROUTE 4

MONEY CR. SUB STA. NO. 7

SAMPLING DATE	TIME	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL NITROGEN MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLORIDE MG/L	SIO2 MG/L	IRON MG/L	CUMULATIVE 25C. UMHO
YR	MO	DAY	HRS.											
77	5	4	2049	318.04	.544	.098	9.830	.606		2.960	115.00	25.70	8.12	440.
77	5	5	959	307.73	.325	.115	11.200	1.160		2.770	56.50	25.50	9.04	463.
77	6	9	1024	5.63	.178	.059	1.280	.257		1.550	105.00	32.00	9.25	697.
77	6	23	1052	2.10	.406	.070	.290	.114		2.430	112.00	46.00	4.28	757.
77	6	2	1614	2.76	.311	.034	.760	.044			191.00	23.70	8.08	515.

HONEY CREEK SUBSTATION F
HONEY CREEK AT WEIS ROAD

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : MONEY CREEK

STREAM : MONEY CREEK

LOCATION W/CODE : AT WEIS ROAD

MONEY CR. SUB STA. NO. F

SAMPLING TIME DATE 24:00 YR MO DY MMS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO KIDE MG/L	S102 MG/L	IRON MG/L	COND 25C. UMHO
76 8 6 1433	.21	.153	.030	.200	.100				21.30	37.00		.90	643.
76 8 11 1120	.88	.195	.060	4.600	.160				72.60	35.00			663.
76 8 17 1455	.60	.141	.050	1.300	.070				39.50	37.00			648.
76 8 25 1045	.12	.202	.040	.100	.240				32.70	43.00			724.
76 9 8 1751	.14	.329	.155	.240	.224				18.70	37.10			770.
76 9 14 1535	.25	.203	.020		.331				54.80	31.50			618.
76 9 17 1605	.24	.566	.022	.120	.261				454.00	28.40			621.
76 9 21 1545	.27	.269		.530	.040				50.20	31.60			671.
76 9 28 1620	4.32	.449	.063	3.710	.179				160.00	34.80			500.
76 10 4 1335	.27	.149	.055	4.960	.462				69.90	41.30			694.
76 10 7 1050	.38	.149	.083	4.050	.507				71.70	39.70			710.
76 10 12 1720	.37	.122	.030	3.020	.041				50.50	42.50		1.59	727.
76 10 19 1030	.21	.128	.055	1.350	.096				26.20	43.00			779.
76 10 20 1145	.22	.222	.100	1.260	.200				24.80	39.46			741.
76 10 26 1550	.67	.123	.055	1.310	.043				57.80	54.90			701.
76 11 2 1635	.62	.098	.010	2.300	.152				51.80	35.50	10.20	2.76	721.
76 11 4 1520	.30	.067		1.890	.106				19.70	32.50	9.88		726.
76 11 16 1620	.28	.034	.011	1.140	.150				14.50	31.90	11.00		791.
76 12 16 1245	.13	.069		.230	.212				22.00	32.50	11.90		880.
77 2 10 1305	.07	.125	.011	.580	1.640		3.490		91.10	151.00	15.10		1549.
77 2 13 1710	.12	.279	.171	3.160	.692		2.440		26.00	88.10	7.93		754.
77 2 22 1640	1.40	.223	.060	5.550	.724		1.950		33.70	65.50	7.79	2.08	707.
77 2 23 1045	9.40	.385	.249	3.650	.544		1.940		44.40	41.00	5.07	1.62	360.
77 2 25 1625	19.41	.365	.184	3.570	.466		2.510		54.60	41.70	5.04	2.13	382.
77 2 24 935	55.50	.259	.105	4.800	.449		2.050		32.40	39.00	5.14	1.45	409.
77 2 24 1610	48.10	.262	.100	4.840	.404		2.110		37.90	30.20	4.01	3.36	270.
77 2 25 1100	70.92	.244	.090	5.790	.303		1.980		19.70	32.70	4.77	1.13	294.
77 2 26 1200	62.72	.144	.043	4.700	.391		2.400		16.10	33.00	6.21		380.
77 2 27 1540	52.18	.181	.051	5.540	.369		1.920		21.30	37.20	6.66		424.
77 2 28 1110	34.14	.170		11.200	.302		2.020		14.50	160.00	7.04		449.
77 3 19 1715	59.40	.185	.072	11.000	.234		2.590		20.00	47.00	4.04	2.08	393.
77 4 3 1625	59.78	.267	.032	6.450	.077		2.310		36.70	20.00	7.42	9.40	350.
77 4 4 1120	63.30	.204	.034	7.210	.159		3.030		30.70	20.70	6.32	4.60	391.
77 4 21 950	60.80	1.010	.100	5.130	.762		5.600		370.00	25.30		33.18	305.
77 4 21 1510	60.80	.666	.117	4.670	.632		4.570		160.00	23.00	7.71	14.40	461.
77 4 25 1841	19.41	.120	.023	6.290	.244		2.030		25.80	24.00		2.00	487. 49

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJON RIVER BASIN : MONEY CREEK

STREAM : MONEY CREEK

LOCATION W/CODE : AT WEIS ROAD

MONEY CR. SUB STA. NO. F

SAMPLING TIME DATE 24:00 YR MO DY MRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHOD PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL NITRO MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	CUND 25C. UMMO
77 4 27 1115	15.00		.023	5.550	.134		1.800		41.00	23.80	8.50		584.
77 5 4 1515	26.80	.567	.044	8.070	.246		2.160		114.00	19.90	8.81		478.
77 5 4 2100	42.40	.370	.051	4.910	.506		2.080		77.90	22.10	6.77		466.
77 5 5 1015	41.03	.381	.127	5.940	.225		2.560		26.70	29.20	9.15		481.
77 6 9 1037	.44	.196	.009	2.400	.493		2.370		192.00	24.10	9.17		694.
77 6 23 1115	.24	.140	.014	.290	.055		2.040		26.80	34.10	3.55		671.
77 6 2 1030	.37	.164	.009	.430	.053				82.00	25.00	1.79		642.

HONEY CREEK SUBSTATION 8
HONEY CREEK UPSTREAM FROM BROKENKNIFE CREEK
ON WEIS ROAD

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : MONEY CREEK

STREAM : MONEY CREEK

LOCATION W/CODE : AT WEIS ROAD

MONEY CR. SUB STA. NO. 8

SAMPLING DATE	TIME	FLOW	TOTAL	ORTHO	NO-2	NH-3	ORG.	TOTAL	COD	SUSPENS	CHLO	SIO2	IRON	CAND
YR MO DY	HRS.	CFS	PHOS. MG/L	PHOS. MG/L	NO-3 MG/L	MG/L	NIT. MG/L	KJELD MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UMHQ
76	8	6	1435	.56	.086	.070	.100	.090		40.80	30.00		1.50	775.
76	8	11	1125	2.11	.069	.050	.100	.030		16.90	20.00			642.
76	8	17	1500	1.59	.054	.050	.100	.020		18.00	32.00			686.
76	8	25	1046	.31	.069	.070	.100	.040		32.40	23.00			679.
76	9	8	2055	.37	.094	.070	.040	.023		42.00	20.00			712.
76	9	14	1538	.65	.084	.044	.010	.010		29.00	20.00			675.
76	9	17	1600	.62	.200	.049	.020	.046		30.70	24.00			616.
76	9	21	1550	.71	.122	.090	.100	.020		10.50	27.00			743.
76	9	28	1652	11.43	.230	.104	2.270	.131		33.60	35.00			571.
76	10	4	1333	.71	.175	.063	.180	.064		71.30	39.00			742.
76	10	7	1101	1.00	.120	.110	.130	.073		20.40	37.30			782.
76	10	12	1725	.81	.041	.020	.070	.059		4.00	37.10		.30	772.
76	10	19	1035	.61	.064	.060	.150	.085		13.60	33.00			810.
76	10	20	1150	.60	.124	.124	.190	.035		7.10	35.00			800.
76	10	26	1555	1.60	.082	.082	1.250	.035		6.00	48.90		.43	742.
76	11	2	1640	1.63	.038	.016	1.080	.035		4.20	43.00	8.76	.37	771.
76	11	9	1535	.81	.023	.010	.300	.020		10.60	38.00	7.23		804.
76	11	16	1622	.74	.010	.010	.070	.010		5.50	32.60	7.02		813.
76	12	16	1250	.35	.020	.070	.180			11.30	36.60	8.70		904.
77	2	13	1320	.18	.451	.011	.260	.062	2.750	494.00	34.80	15.70		479.
77	2	14	1715	.33	.624	.388	3.520	.642	3.810	35.50	46.50	7.03		502.
77	2	22	1640	3.71	.330	.174	3.450	.634	1.950	29.70	49.70	7.87	1.16	581.
77	2	23	1050	24.90	.404	.180	4.240	.575	2.350	142.00	40.00	6.07	3.75	422.
77	2	23	1630	51.40	.419	.144	3.380	.486	3.530	237.00	35.00	4.73	2.64	342.
77	2	24	940	146.40	.403	.153	4.060	.313	1.470	160.00	30.40	3.80	4.98	263.
77	2	24	1615	127.40	.535	.122	4.520	.254	2.660	365.00	31.00	4.43	6.95	247.
77	2	25	1105	187.70	.328	.114	5.970	.246	2.360	116.00	36.20	5.14	2.35	347.
77	2	26	1100	166.00	.231	.067	6.740	.212	3.260	83.30	38.50	6.05		415.
77	2	27	1545	130.10	.418	.066	8.180	.221	2.370	379.00	43.00	6.81		471.
77	2	28	1115	90.40	.176	.016	8.240	.227	1.020	46.50	104.00	7.72		480.
77	3	19	1720	157.40	.222	.106	9.500	.313	1.670	74.90	43.00	8.12	4.80	515.
77	4	3	1625	156.70	.397	.107	8.350	.196	1.990	119.00	28.20	4.86	13.90	400.
77	4	4	1125	147.50	.348	.091	7.740	.196	3.800	87.70	29.90	4.31	7.23	460.
77	4	21	1000	144.90	.257	.025	4.070	.044	1.680	84.20	31.30		7.10	579.
77	4	21	1515	160.90	.202	.011	3.440	.064	1.410	85.90	28.30	6.57	5.20	544.
77	4	25	1045	51.40	.110	.038	7.880	.184	1.590	32.20	34.00		1.70	610.

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : MONEY CREEK

STREAM : MONEY CREEK

LOCATION W/CODE : AT WEIS ROAD

MONEY CR. SUB STA. NO. 4

SAMPLING TIME	FLOW	TOTAL	ORTHO	NO-2	NH-3	ORG.	TOTAL	COO	SUSPEND	CHLO	SIO2	IRON	COND
DATE 2400	CFS	PHOS.	PHOS.	NO-3		NIT.	KJELD		SOLIDS	RIDE			25C.
YR MO DY HRS.		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UMHO
77 4 27 1125	41.72		.022	6.890	.038		.878		33.80	33.80	7.27		629.
77 5 4 1517	68.70	.641	.055	10.800	.317		3.070		180.00	29.50	10.70		418.
77 5 4 2104	112.20	.522	.067	11.600	.504		2.400		235.00	27.20	9.04		507.
77 5 5 1016	108.60	.237	.083	8.960	.400		2.070		43.90	24.50	8.97		549.
77 6 9 2037	1.28	.187	.128	20.000	.551		2.670		44.70	28.60	12.60		682.
77 6 23 1110	.74	.061	.009	.190	.060		.720		27.20	35.40	4.32		751.
77 8 2 1636	1.00	.048	.009	.160	.079				30.70	22.80	8.98		540.

HONEY CREEK SUBSTATION 9
BROKENKNIFE CREEK AT COUNTY LINE ROAD

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : MONEY CREEK

STREAM : BROKENKNIFE CR.

LOCATION W/CODE : AT COUNTY LINE RD.

MONEY CR. SUB STA. NO. 9

SAMPLING DATE	TIME 2400 YR MO DY MRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHOPHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLORIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
76	8 6 1440		.588	.520	.100	.110				87.40	71.00		3.78	810.
76	8 11 1130		.300	.300	1.100	.030				5.60	59.00			655.
76	8 17 1505		.410	.410	.800	.040				7.00	50.00			615.
76	8 25 1053		.386	.380	.200	.070				8.60	100.00			1087.
76	9 8 1100		.351	.351	.230	.031				7.60	84.10			988.
76	9 14 1545		.310	.281	.710	.022				15.50	46.10			560.
76	9 17 1610		1.230	1.010	2.450	1.400				34.70	58.70			640.
76	9 21 1600	.12	.424	.410	3.000	.190				8.10	92.00			902.
76	9 28 1630	.49	.314	.127	26.400	.112				26.40	42.50			594.
76	10 4 1340	.12	.261	.261	.830	.046				5.40	68.90			823.
76	10 7 1107	.18	.391	.391	.370	.054				6.20	69.90			857.
76	10 12 1730	.13	.629	.563	1.230	.354				3.50	66.60		.33	786.
76	10 19 1040	.14	.419	.345	.120	.024				68.40	86.20			984.
76	10 20 1155	.18	.431	.426	.410	.026				5.10	82.00			935.
76	10 26 1600	.21	.296	.299	3.310	.478				6.40	76.50		.56	787.
76	11 2 1645	.26	.293	.222	3.670	.207				5.70	63.40	9.01	.61	726.
76	11 9 1530	.14	.367	.295	2.170	.045				11.20	54.40	5.09		880.
76	11 16 1629	.13	.749	.559	2.370	.137				25.40	62.70	2.54		986.
76	12 16 1255	.51	1.130	1.130	1.220	2.000				15.00	95.30	7.18		1195.
77	2 13 1720	1.95	.749	.580	4.000	2.000		5.200		16.10	52.60	7.20		544.
77	2 22 1652	3.01	.484	.300	2.470	1.670		2.190		27.30	71.30	7.79	1.29	627.
77	2 23 1055	5.10	.917	.640	3.870	1.910		7.250		108.00	47.90	4.62	1.64	369.
77	2 23 1635	153.00	.605	.239	3.080	.638		4.080		228.00	33.80	3.88	2.23	255.
77	2 24 945	180.00	.395	.150	4.540	.368		1.940		112.00	40.40	3.95	3.41	269.
77	2 24 1620	150.00	.460	.158	4.930	.342		2.360		166.00	38.90	4.39	5.93	286.
77	2 25 1110	64.00	.326	.137	6.110	.307		2.280		60.70	41.90	5.73	1.62	362.
77	2 26 1145	19.00	.264	.124	5.610	.287		3.040		45.70	41.60	5.91		394.
77	2 27 1550	23.00	.286	.140	8.770	.305		1.390		77.10	49.60	6.89		460.
77	2 28 1170		.236	.066	7.270	.398		1.180		35.10	111.00	7.91		484.
77	3 19 1730	74.00	.230	.108	9.490	.274		2.020		39.00	42.80	8.01	3.48	463.
77	4 3 1620	126.00	.343	.136	7.530	.244		1.200		45.40	28.20	9.60	9.00	406.
77	4 4 1131	54.00	.309	.099	6.460	.251		3.930		51.00	29.30	8.23	5.00	468.
77	4 21 1005	6.00	.566	.199	4.100	.549		3.270		87.90	32.60		10.00	477.
77	4 21 1525	5.00	.631	.217	3.800	.879		4.210		79.00	35.40	7.18	9.10	476.
77	4 25 1051	13.00	.181	.182	7.860	.546		2.060		23.40	36.50		2.28	568.
77	4 27 1130	7.40		.070	7.830	.186		1.430		10.60	37.30	8.96		608.

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : MONEY CREEK

STREAM : BROKENKNIFE CR.

LOCATION W/CODE : AT COUNTY LINE RD.

MONEY CR. SUB STA. NO. 9

SAMPLING TIME	FLOW	TOTAL	ORTHO	NO-2	NH-3	ORG.	TOTAL	COD	SUSPEND	CHLO	SI02	IRON	COND
DATE 2400	CFS	PHOS.	PHOS.	NO-3		NIT.	KJELD		SOLIDS	RIDE			25C.
YR MO DY HRS.		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UNNO
77 5 4 1523	151.00	.705	.087	11.900	.501		3.500		191.00	31.50	10.40		412.
77 5 4 2110	127.00	.506	.094	14.300	.789		3.520		98.10	28.00	9.63		472.
77 5 5 1022	62.00	.269	.124	12.400	.966		2.370		33.40	28.90	9.14		527.
77 6 9 1045	4.20	.383		12.700	.778		1.950		52.70	42.60	9.40		643.
77 6 23 1115	2.70	.495	.339	.370	.067		1.430		22.90	62.50	6.39		861.
77 8 2 1645	2.85	.311	.239	.840	.054				26.30	42.90	4.88		676.
77 9 17 1200	118.00	.480	.175	3.490	.067				149.00	15.80	9.35		346.

HONEY CREEK SUBSTATION B
TRIBUTARY AT SCOTT ROAD

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : HONEY CREEK

STREAM : HONEY CREEK

LOCATION W/CODE : AT SCOTT ROAD

HONEY CR. SUB STA. NO. B

SAMPLING TIME DATE 2453 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL NJELO MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
76 8 6 1450	.07	2.000	2.000	.400	2.000				16.80	50.00		1.00	958.
76 8 17 1515	.20	.230	.230	.200	.840				7.30	33.00			981.
76 9 8 1110	.05	.282	.218	.180	.571				10.30	34.90			835.
76 9 14 1550	.08	.508	.349	.270					25.70	33.30			762.
76 9 17 1620	.08	.365	.219	.690	.130				29.00	24.20			666.
76 9 21 1619	.09	.206	.170	.400	.600				9.80	38.00			849.
76 9 28 1640	1.46	.172	.172	13.000	.168				7.10	52.10			772.
76 10 4 1350	.09	.123	.123	.380	.219				12.40	40.90			875.
76 10 7 1120	.13	.215	.166	.410	.414				64.00	40.60			885.
76 10 12 1740	.10	.603	.478	.330	.117				4.90	40.10		.28	968.
76 10 19 1050	.07	1.810	.922	.290	2.000				16.30	48.30			1080.
76 10 20 1205	.08	1.160	.526	.530	.897				27.60	66.30			1009.
76 10 26 1640	.20	.143	.143	3.460	.166				20.60	66.90		1.14	761.
76 11 2 1655	.21	.119	.076	3.320	.034				12.90	51.50	9.80	.91	784.
76 11 9 1540	.10	.372	.191	.920	.246				45.10	45.10	4.83		955.
76 11 16 1639	.10	.324	.234	.280	.042				27.00	44.90	2.34		1053.
77 2 23 1105	3.18	.209	.095	4.550	.387		1.640		29.30	33.40	3.77	1.24	248.
77 2 23 1645	6.57	.264	.064	4.250	.255		2.790		108.00	35.30	3.43	2.68	234.
77 2 24 955	18.77	.246	.068	7.580	.212		1.880		77.70	39.00	4.17	2.56	294.
77 2 24 1630	16.33	.242	.072	7.990	.334		1.830		72.50	39.90	4.42	3.21	300.
77 2 25 1120	24.00	.166	.055	9.970	.145		1.700		21.40	43.50	6.20	.67	394.
77 3 19 1745	26.10	.126	.059	12.700	.520		1.070		8.00	43.80	8.10	1.80	463.
77 4 3 1645	20.00	.237	.040	11.800	.159		1.500		25.30	27.40	8.20	8.40	379.
77 4 4 1141	21.40	.239	.023	9.840	.168		3.500			29.00	7.91	5.00	419.
77 4 21 1010	20.56	.141	.013	4.710	.038		1.400		19.10	29.60		3.40	504.
77 4 21 1530	20.56	.112	.014	4.140	.038		1.040		11.10	29.90	8.66	2.00	506.
77 4 25 1103	6.57	.150	.093	8.720	.081		1.090		5.20	31.00		.90	516.
77 4 27 1135	5.33		.036	7.720	.055		1.270		7.20	35.20	7.70		562.
77 5 4 1534	8.78	.369	.025	10.900	.296		2.640		72.50	26.80	10.60		376.
77 5 4 2129	14.34	.306	.038	12.400	.529		3.070		42.80	24.20	8.80		450.
77 5 5 1032	13.88	.206	.048	11.800	.425		1.810		45.70	21.80	8.50		480.
77 6 9 1.55	.10	.153	.124	13.900	.247		2.150		21.30	42.80	4.17		670.
77 6 23 1125	.10	.190	.099	1.840	.354		1.010		19.00	24.50	6.89		562.
77 9 17 1209	.41	.275	.062	5.560	.036				101.00	18.10	9.72		357.

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HONEY CREEK SUBSTATION IO
HONEY CREEK AT ROUTE IO3

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : HONEY CREEK

STREAM : HONEY CREEK

LOCATION W/CODE : AT ROUTE 103

HONEY CR. SUB STA. NO. 10

SAMPLING DATE DATE YR MO DY	TIME 2400 HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLOR RIDE MG/L	S102 MG/L	IRON MG/L	COND 25C. UMHO
76	8 6 1455	.33	.264	.170	.100	.190				42.90	29.00		1.40	742.
76	8 11 1155	1.23	.150	.150	.100	.080				10.00	36.00			734.
76	8 17 1520	.93	.150	.150	.200	.050				37.80	29.00			769.
76	8 25 1111	.18	.110	.110	.100	.080				33.00	33.00			739.
76	9 8 1115	.22	.104	.093	.060	.042				30.50	35.10			762.
76	9 14 1600	.38	.101	.081		.046				14.40	22.30			648.
76	9 17 1630	.36	.210	.070	.030	.027				130.00	20.00			668.
76	9 21 1615	.42	.095	.070	.100	.040				18.50	25.00			663.
76	9 28 1645	6.70	.228	.092	6.190	.169				22.50	57.20			537.
76	10 4 1356	.42	.080	.071	.050	.045				11.40	41.60			747.
76	10 7 1125	.60	.138	.131	.030	.041				35.50	40.50			772.
76	10 12 1745	.47	.190	.092	.010	.018				55.70	32.70		1.48	740.
76	10 19 1100	.33	.148	.118	.010	.035				22.80	44.70			842.
76	10 20 1210	.35	.146	.124	.040	.022				10.60	43.10			823.
76	10 26 1615	.93	.072	.076	3.900	.152				5.20	55.70		.44	722.
76	11 2 1700	.96	.036	.010	.750	.025				7.20	46.10	9.65	.70	767.
76	11 9 1550	.47	.043	.010	.100	.020				15.50	42.00	8.92		834.
76	11 16 1645	.43	.025	.015	.180	.045				7.10	37.80	8.63		858.
76	12 16 1310	.28	.068	.010	.010	.056				9.40	37.30	10.40		862.
77	2 13 1740	.19	.248	.101	3.850	.442		4.260		25.30	43.20	6.07		446.
77	2 22 1715	2.17	.221	.118	2.310	.447		2.510		12.20	54.90	8.71	.86	863.
77	2 23 1110	14.55	.511	.310	3.630	.571		2.320		113.00	39.00	4.31	1.53	316.
77	2 23 1650	30.11	.492	.178	3.140	.327		3.610		260.00	31.70	3.65	2.72	268.
77	2 24 1000	86.00	.404	.131	4.330	.419		2.140		175.00	34.40	3.94	5.20	281.
77	2 24 1635	74.60	.465	.125	4.590	.435		1.810		265.00	36.20	4.63	5.97	312.
77	2 25 1125	109.90	.373	.104	5.920	.194		2.090		190.00	42.30	5.73	4.14	389.
77	2 26 1205	97.20	.251	.086	5.680	.244		2.660		87.30	45.00	6.71		445.
77	2 27 1605	80.85	.214	.079	7.880	.260		1.550		85.10	51.50	7.03		521.
77	2 28 1130	52.91	.210	.044	6.870	.290		.958		39.10	111.00	8.25		526.
77	3 19 1750	92.10	.163	.071	9.620	.189		.860		49.40	50.20	8.63	3.30	557.
77	4 3 1555	91.71	.370	.120	7.740	.222		1.600		100.00	31.50	9.30	11.30	406.
77	4 4 1150	98.05	.302	.092	7.180	.202		2.500		41.30	32.70	9.33	5.80	475.
77	4 21 1020	94.21	.091		3.630	.208		1.180		23.00	39.60		1.86	449.
77	4 21 1540	94.21	.081		3.710	.060		1.110		14.40	38.70	5.24	1.20	639.
77	4 25 1112	30.88	.091	.043	6.500	.164		1.110		11.50	34.50		1.10	631.
77	4 27 1140	24.42		.028	5.590	.046		1.360		5.40	35.70	7.29		648.

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : MONEY CREEK

STREAM : MONEY CREEK

LOCATION W/CODE : AT ROUTE 103

MONEY CR. SUB STA. NO. 13

SAMPLING TIME DATE 2410 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPENS SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
77 5 4 1541	48.21	.657	.045	10.300	.316		3.830		321.00	33.60	10.10	18.40	510.
77 5 4 2128	65.71	.435	.059	12.100	.399		3.130		126.00	30.00	10.00	8.00	518.
77 5 5 1038	63.58	.205	.011	11.700	.124		1.960		57.40	55.70	7.70	3.90	591.
77 6 9 1103	.75	.095	.037	.870	.076		.611		63.60	28.90	11.90	4.80	707.
77 6 23 1130	.43	.107	.040	.370	.084		.600		36.80	31.40	10.40	1.30	751.
77 8 2 1703	.57	.132	.051	.930	.062				79.10	27.10	13.00	3.50	583.

HONEY CREEK SUBSTATION G
ACKERMAN DITCH AT DICKSON ROAD

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : MONEY CREEK

STREAM : MONEY CREEK

LOCATION W/CODE : AT DICKSON ROAD

MONEY CR. SUB STA. NO. 6

SAMPLING TIME DATE 24.0 YR MO DY MRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHOPHOS. MG/L	NO-2 MG/L	NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLOR RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
76 8 6 1510	.09	.331	.100	.100	.340					114.00	55.00		3.00	557.
76 8 17 1520	.26	.169	.070	.130	.040					31.40	54.00			628.
76 9 8 1120	.06	.173	.059	.040	.052					13.00	72.30			691.
76 9 14 1614	.11	.545	.030		.110					381.00	57.40			575.
76 9 17 1635	.10	.250	.125	.350	.174					30.60	46.20			561.
76 9 21 1645	.12	.110	.030	.101	.040					4.40	44.00			635.
76 9 28 1650	1.87	.261	.172	1.570	.152					4.10	67.90			600.
76 10 4 1403	.12	.091	.027	.050						17.30	51.80			697.
76 10 7 1132	.17	.287	.059	.030	.154					62.40	51.40			720.
76 10 12 1750	.13	.172	.019	.040	.124					76.70	46.70		1.67	680.
76 10 19 1145	.09	.368	.044	.010	.126					107.00	53.60			786.
76 10 20 1215	.10	.180	.102	.710	.520					32.70	21.10			611.
76 10 26 1620	.26	.240	.127	.970	1.940					40.60	93.40		1.84	934.
76 11 2 1705	.27	.104	.053	2.690	.546					8.10	59.30	8.37	.66	812.
76 11 9 1555	.13	.059		1.250	.544					11.30	60.20	2.55		980.
76 11 16 1651	.12	.374	.010	.400	.111					72.10	63.00	2.17		1069.
77 2 13 1750	.05	2.000	2.000	4.000	2.000			6.400		52.30	53.90	5.54		418.
77 2 22 1725	.61	.783	.606	3.620	1.760			3.350		32.70	46.10	7.84	1.96	479.
77 2 23 1115	4.08	1.080	.889	3.880	.861			2.480		70.50	32.90	4.75	1.24	314.
77 2 23 1655	8.44	.627	.581	3.300	.550			5.340		144.00	29.00	4.19	1.94	254.
77 2 24 1015	24.16	.549	.277	3.890	.260			1.540		82.10	29.60	4.30	2.97	246.
77 2 24 1640	20.91	.426	.219	4.550	.332			2.020		102.00	33.50	5.03	4.10	277.
77 2 25 1130	30.80	.377	.171	4.140	.186			1.970		61.20	36.20	5.93	2.04	353.
77 2 26 1120	27.24	.264	.141	5.650	.169			4.270		22.40	37.40	6.37		415.
77 2 27 1610	22.67	.256	.142	7.790	.234			2.280		56.30	45.70	8.94		478.
77 2 28 1135	14.82	.210	.055	6.140	.331			.186		16.50	101.00	7.53		493.
77 3 19 1409	25.82	.169	.092	9.170	.396			1.020		22.70	48.40	8.38	2.30	527.
77 4 3 1550	25.75	.392	.152	6.520	.108			1.920		56.20	30.60	10.50	10.00	369.
77 4 21 1022	27.44	.164	.026	4.150	.414			1.520		49.00	34.80		3.00	678.
77 4 4 1155	26.46	.363	.135	6.510	.163			3.770		60.50	33.70	8.82	5.80	442.
77 4 21 1545	26.46	.123	.027	3.370	.076			1.150		15.30	33.30	5.84	1.40	648.
77 4 25 1119	4.43	.101	.039	6.140	.159			1.230		5.70	29.90		1.10	603.
77 4 27 1145	6.84		.031	5.590	.055			1.100		7.40	31.80	8.85		630.
77 5 4 1545	11.27	.534	.047	9.930	.321			4.290		95.30	30.50	11.70	4.00	494.
77 5 4 2135	18.41	.480	.078	13.000	.560			3.820		78.70	30.50	10.90	5.50	567.
77 5 5 1045	17.82	.252	.124	13.600	.417			2.400		59.10	27.70	11.70	5.00	579.

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : MONEY CREEK

STREAM : MONEY CREEK

LOCATION W/CODE : AT DICKSON ROAD

MONEY CR. SUB STA. NO. 6

SAMPLING TIME	FLOW	TOTAL	ORTHO	NO-2	NH-3	ONG.	TOTAL	COD	SUSPEND	CHLO	SI02	IRON	COND
DATE 2400	CFS	PHOS.	PHOS.	NO-3		NIT.	KJEL0		SOLIDS	R10L			25C.
YR MO DY HMS.		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UMHU
77 6 9 1108	.21	.003	.039	.700	.114		.786		20.00	42.50	3.60	1.90	624.
77 6 23 1135	2.78	.114					.840		14.10			.70	695.
77 8 2 1709	.16	.144	.043	.270	.068				25.00	21.70	8.43	3.50	450.

HONEY CREEK SUBSTATION RCE
ROCK CREEK EAST AT COUNTY ROAD 16

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : SANDUSKY RIVER

STREAM : ROCK CREEK EAST

LOCATION W/CODE : AT COUNTY ROAD 16

HONEY CR. SUB STA. NO. RCE

SAMPLING TIME DATE 2400 YR MO DY MRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHU PHOS. MG/L	NO-2 NO-1 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COO MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
76 9 17 1450		.280	.238	.390	.253				9.50	102.00			970.
76 9 21 1745	.26	.100	.010	.210	.050				26.00	53.00			535.
76 9 28 1510	.26	.083	.010	2.040	.116				14.10	54.80			530.
76 10 4 1221	.25	.122	.032	.110	.134				25.90	58.00			546.
76 10 7 935	.42	.149	.042	.150	.085				34.80	56.50			560.
76 10 10 1620	.40	.076	.011	.070	.028				15.80	58.70		.43	566.
76 10 19 922	.22	.094	.023	.150	.077				19.40	62.50			627.
76 10 20 1025	.23	.079	.029	.250	.071				14.00	59.20			580.
76 10 26 1450	.25	.046	.014	.470	.051				8.10	71.30		.58	648.
76 11 2 1515	.25	.066	.015	.200	.097				8.00	68.90	3.84	.69	721.
76 11 9 1425	.25	.052		.110	.028				14.50	70.00	2.27		773.
76 11 16 1450	.24	.132	.012	1.110	.051				89.90	78.70	1.80		880.
76 12 16 1050	.35	.065		.030	.148				13.70	90.00	13.80		1647.
77 2 10 1025		.132	.019	.090	.283		1.340		90.70	62.90	10.90		1104.
77 2 13 1525	.47	.895	.500	3.210	.800		5.210		31.30	105.00	4.64		662.
77 2 22 1510	.40	.149	.077	2.570	.242		1.790		9.90	92.10	5.81	.53	710.
77 2 23 951	.57	.473	.300	2.060	.914		3.360		45.90	51.10	3.62	1.42	301.
77 2 24 845	.60	.389	.111	2.430	.279		2.640		103.00	34.50	3.11	2.97	234.
77 2 24 1520	.62	.302	.125	2.830	.412		1.700		109.00	38.60	3.53	3.88	260.
77 2 25 1010	.50	.164	.068	3.680	.158		2.070		33.40	46.10	4.97	.92	338.
77 2 26 1308	.46	.058	.049	3.860	.111		.981		10.80	50.40	4.90		417.
77 2 27 1500	.55	.216	.071	6.940	.139		2.050		55.90	52.10	5.69		378.
77 2 28 1025		.132	.103	7.740	.217		1.110		19.10	46.20	6.63		453.
77 3 19 1550	3.40	.097	.038	6.320	.071		1.310		21.30	47.00	7.75	1.80	439.
77 4 3 1805	11.00	.229	.036	3.850	.133		1.460		33.10	24.10	8.11	9.80	355.
77 4 4 1015	2.55	.150	.039	3.850	.085		.824		19.50	28.70	8.73	4.10	438.
77 4 21 858	.60	.037		.040	.118		.665			49.10		.50	763.
77 4 21 1413	.60	.039		.060	.061		.528		7.80	47.70	2.45	.40	753.
77 4 25 933	130.00	.086	.032	3.930	.137		.944		12.60	34.80		1.30	511.
77 4 27 1035	1.80		.030	2.870	.050		1.130		5.70	31.20	8.51		469.
77 5 4 1415	125.00	.472	.038	5.430	.415		2.470		165.00	24.30	9.59		305.
77 5 4 2016	105.00	.356	.058	5.550	.298		2.170		59.00	20.20	8.96		344.
77 5 5 909	15.50	.171	.064	3.490	.214		1.880		20.10	19.10	7.51		424.
77 6 9 934	.55	.065	.008	.110	.185		1.460		9.90	39.90	3.07		664.
77 6 23 959	.52	.117	.001	.140	.044		1.880		15.60	38.40	3.00		664.
77 8 2 1511	.47		.012	.230	.234				61.90	46.60	7.33		544.

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HONEY CREEK SUBSTATION RCW
ROCK CREEK WEST AT COUNTY ROAD 16

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJON RIVER BASIN : SANDUSKY RIVER

STREAM : ROCK CREEK WEST

LOCATION W/CODE : AT COUNTY ROAD 16

HONEY CR. SUB STA. NO. ACM

SAMPLING DATE YR MO DY	TIME 2400 HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHOPHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMMO
										93.90	57.60			487.
										8.30	100.00			1073.
										21.10	108.00			1090.
										9.80	83.10			987.
										20.40	81.00			982.
										7.70	93.70		.40	1063.
										9.30	90.20			1121.
										10.90	92.70			1106.
										10.00	92.20		.54	1011.
										5.80	90.40	4.25	.47	1000.
										7.80	65.30	3.09		934.
										11.60	77.70	2.87		1033.
										73.70	108.00	8.43		1395.
										82.00	86.40	5.71		783.
								2.560		26.90	53.20	5.51	1.09	478.
								1.530		70.10	40.10	4.27	1.31	286.
								1.670		120.00	27.90	2.71	2.28	199.
								3.310		120.00	28.00	2.99	4.15	195.
								2.320		132.00	28.90	3.66	4.72	209.
								1.770		65.40	31.90	4.47	2.40	247.
								1.510		21.20	39.00	4.92		327.
								1.050		70.30	48.50	4.77		368.
								1.520		32.00	56.50	6.76		389.
								1.510		36.50	33.60	6.52	3.70	319.
								1.400		108.00	16.10	7.83	30.30	254.
								2.180		67.10	19.90	6.58	10.70	329.
								2.280		9.00	34.30			599.
								1.020		3.50	34.20	4.45	.50	599.
								.838		16.80	30.00		2.10	433.
								1.360		16.20	24.80	9.23		408.
								1.230		110.00	21.20	8.68		302.
								1.940		103.00	17.90	7.30		336.
								1.860		30.80	14.70	6.88		361.
								2.150		5.40	61.10	5.35		895.
								.780		5.30	64.90	4.20		985.
								.650		14.20	54.80	6.87		980.

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NORWALK CREEK
NEAR
NORWALK, OHIO

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : HURON RIVER

STREAM : NORWALK CREEK

LOCATION W/CODE : NEAR NORWALK, OHIO

USGS NO. 04198100

SAMPLING DATE	TIME 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJEL MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLOR RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
77	3 11 1500		.052	.001	2.380	.003				10.00	24.40	5.61		545.
77	3 18 1350	190.0	.130	.017	3.460	.054				146.00	23.20	4.15		235.
77	3 18 1740	210.0	.148	.005	4.280	.035				113.00	17.90	4.18		204.
77	3 19 1805	17.0	.090	.031	6.670	.072				41.00	21.30	6.05		312.
77	3 19 1515	17.0	.116	.044	6.800	.027				33.00	27.00	6.41		348.
77	3 19 2125	17.0	.054	.014	7.080	.014				38.00	26.80	6.78		366.
77	3 19 2145	17.0	.051	.021	7.320	.007				37.00	24.90	6.74		364.
77	3 19 2330	17.0	.055	.024	7.040	.005				35.00	33.40	6.75		366.
77	3 20 1145	21.0	.060	.041	6.300	.082				40.00	27.20	6.62		377.
77	3 20 1505	29.0	.072	.035	7.000	.070				33.00	24.50	6.37		360.
77	3 20 1630	26.0	.055	.006	7.340	.063				32.00	25.00	6.33		355.
77	3 20 2200	17.0	.055	.025	7.120	.037				22.00	28.30	6.48		359.
77	3 21 120	13.0	.060	.014	7.080	.003				26.00	31.30	6.67		374.
77	3 21 250	11.0	.065	.028	6.940	.003				30.00	34.00	6.75		380.
77	3 21 1110	6.4	.065	.014	6.640	.003				35.00	26.70	6.88		415.
77	3 21 1240	6.0	.055	.004	6.500	.003				24.00	27.40	7.21		420.
77	3 21 1410	6.0	.072	.003	6.560	.003				31.00	27.80	7.29		426.
77	3 21 2120	6.0	.087	.011	5.810	.003				25.00	33.60	7.24		448.
77	3 22 430	6.0	.134	.007	5.160	.003				208.00	25.50	6.41		473.
77	3 22 1305	163.0	.460	.116	4.440	.121				531.00	9.80	4.06		218.
77	3 22 1410	163.0	.158	.005	4.540	.016				351.00	10.30	4.17		223.
77	4 2 940	22.0	.500	.025	1.710	.003				474.00	12.90	4.42		328.
77	4 2 1225	42.0	.445	.027	2.460	.003				387.00	9.40	4.84		289.
77	4 2 1405	50.0	.273	.038	2.900	.024				287.00	9.20	5.12		274.
77	4 2 1550	50.0	.332	.014	3.310	.003				249.00	9.30	5.46		255.
77	4 2 1735	54.0	.385	.039	3.350	.138				231.00	9.50	5.87		258.
77	4 2 2200	160.0	.789	.027	2.990	.003				3463.00	8.60	5.86		202.
77	4 2 2230	170.0	1.200	.192	2.950	.008				1861.00	7.50	4.96		194.
77	4 3 30	165.0	.423	.014	2.960	.003				1280.00	8.80	4.28		188.
77	4 3 1120	22.0	.360	.026	3.650	.003				201.00	10.80	6.69		260.
77	4 3 1325	17.0	.370	.054	3.910	.038				160.00	9.10	7.06		268.
77	4 3 1400	16.6	.350	.026	3.830	.013				33.00	9.00	7.00		274.
77	4 3 2100	8.8	.318	.039	3.800	.003				84.00	10.60	7.50		321.
77	4 3 2130	7.8	.270	.020	3.890	.008				83.00	10.90	7.66		324.
77	4 4 1150	4.1	.105	.018	3.270	.004				34.00	13.00	7.68		400.
77	4 4 1225	3.6	.100	.016	3.350	.003				34.00	13.00	7.82		403.

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : HURON RIVER

STREAM : NORWALK CREEK

LOCATION W/CODE : NEAR NORWALK, OHIO

USGS NO. 04198100

SAMPLING TIME DATE 2400 YR MO DY MRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
77 4 4 1430	3.6	.090	.016	3.380	.003				23.00	12.90	7.69		413.
77 4 4 1500	3.6	.090	.013	3.230	.015				21.00	13.20	7.66		416.
77 4 4 2355	4.6	.240	.014	3.300	.003				32.00	18.30	7.36		454.
77 4 5 145	6.0	.165	.009	3.250	.003				55.00	19.00	7.33		456.
77 4 5 1220	7.2	.160	.007	3.440	.004				151.00	11.20	6.34		438.
77 5 17 1425		.058	.003	.090	.012				1.00	24.90	.75		765.
77 5 23 2015		.055	.004	.030	.003				1.00	22.30	1.13		766.
77 6 6 1435	5.0	.250	.063	25.800	.318				90.00	29.50	9.90		518.
77 6 6 1645	4.6	.146	.029	24.000	.415				85.00	29.60	9.80		514.
77 6 6 1830	3.9	.160	.059	25.600	.528				71.00	29.90	9.86		530.
77 6 6 2340	2.9	.161	.011	24.200	.235				54.00	31.40	9.70		581.
77 6 7 210	2.5	.165	.050	27.500	.350				49.00	32.20	10.50		654.
77 6 7 230	2.5	.107	.034	26.700	.435				43.00	37.10	10.40		531.
77 6 7 350	2.4	.155	.035	27.100	.458				53.00	43.60	10.60		620.
77 6 7 405	2.4	.155	.020	27.200	.343				50.00	34.40	10.70		587.
77 6 7 430	2.4	.133	.020	27.300	.315				42.00	33.40	10.60		492.
77 6 7 625	2.3	.320	.025	27.200	.253				42.00	37.70	10.60		625.
77 6 7 650	2.2	.117	.035	28.200	.300				44.00	32.90	10.80		618.
77 6 7 845	2.0	.090	.034	28.100	.307				43.00	35.10	10.70		595.
77 6 7 915	2.0	.101	.045	27.900	.153				33.00	35.40	10.60		556.
77 6 7 1115	1.8	.120	.030	27.100	.228				33.00	37.10	10.60		680.
77 6 7 1145	1.8	.088	.022	27.000	.175				24.00	32.30	10.60		680.
77 6 7 1215	1.8	.101	.018	26.900	.185				30.00	35.00	10.70		688.
77 6 7 1435	1.6	.138	.016	26.000	.218				26.00	37.70	10.30		692.
77 6 7 1505	1.6	.092	.012	25.800	.150				25.00	36.90	10.40		684.
77 6 7 1650	1.5	.099	.026	25.500	.163				15.00	37.90	10.20		695.
77 6 7 1720	1.5	.124	.017	25.400	.138				23.00	35.70	10.10		673.

NEFF RUN
NEAR
LITCHFIELD, OHIO

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : BLACK RIVER

STREAM : NEFF RUN

LOCATION & CODE : NEAR LITCHFIELD, OHIO

USGS NO. 84199800

SAMPLING DATE	TIME 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
77	3 11 1245		.015	.001	.052	.007				16.00	32.60	3.82		429.
77	3 18 1306	20.1	.076	.001	1.300	.019				52.00	14.80	4.49		171.
77	3 18 1650	10.1	.042	.003	1.400	.009				67.00	16.20	4.84		170.
77	3 19 915	3.7	.044	.007	1.600	.010				25.00	17.00	5.77		212.
77	3 19 1425	3.5	.035	.004	1.450	.005				28.00	17.70	5.92		223.
77	3 19 2040	.8	.025	.004	1.100	.003				9.00	19.50	5.34		316.
77	3 19 2220	.8	.042	.010	.970	.003				16.00	16.20	5.06		317.
77	3 19 2245	.8	.040	.006	.954	.003				11.00	23.20	5.03		323.
77	3 20 30	.8	.020	.002	.799	.003				24.00	20.40	4.11		322.
77	3 20 115	.8	.041	.007	.830	.003				17.00	21.30	4.65		331.
77	3 20 1055	3.7	.036	.003	1.010	.003				27.00	17.00	5.56		272.
77	3 20 1425	4.4	.051	.008	1.330	.003				6.00	21.00	5.30		280.
77	3 20 1550	3.6	.024	.003	1.310	.003				21.00	23.00	5.29		288.
77	3 20 1715	3.6	.035	.003	1.370	.003				28.00	22.70	5.34		283.
77	3 20 2110	3.4	.055	.009	1.090	.003				14.00	17.60	5.50		331.
77	3 21 200	3.3	.078	.003	1.000	.009				14.00	18.50	5.34		331.
77	3 21 340	3.2	.054	.001	.420	.003				19.00	10.20	5.83		244.
77	3 21 1025	3.0	.072	.009	1.360	.003				10.00	17.90	5.76		278.
77	3 21 1153	.8	.026	.001	1.360	.003				27.00	17.40	5.00		278.
77	3 21 1323	.7	.005	.002	1.350	.003				12.00	17.70	5.87		279.
77	3 22 1215	6.4	.085	.005	1.200	.003				74.00	17.30	4.68		228.
77	4 2 840	5.1	.116	.031	.240	.117				107.00	18.80	4.36		252.
77	4 2 1130	6.2	.165	.025	.420	.004				131.00	16.20	4.33		223.
77	4 2 1315	6.8	.155	.088	.500	.003				119.00	13.90	4.65		212.
77	4 2 1505	7.4	.133	.024	.400	.076				108.00	13.60	5.00		284.
77	4 2 1640	12.5	.150	.007	.401	.004				164.00	9.80	5.03		174.
77	4 2 2110	11.5	.207	.003	.670	.020				158.00	8.40	4.91		154.
77	4 2 2340	9.6	.113	.039	.690	.004				162.00	7.40	4.00		145.
77	4 3 115	7.4	.146	.012	.720	.003				91.00	7.90	5.14		157.
77	4 3 1210	4.0	.175	.015	1.150	.003				37.00	13.20	5.50		280.
77	4 3 1240	3.8	.213	.011	.622	.003				36.00	9.50	5.58		188.
77	4 3 1440	3.5	.145	.011	.544	.003				27.00	9.80	5.64		192.
77	4 3 1945	3.4	.145	.020	.372	.042				34.00	10.50	5.52		202.
77	4 3 2015	3.4	.169	.039	.410	.003				38.00	11.20	5.48		263.
77	4 4 1310	.8	.075	.006	.210	.003				23.00	12.50	4.74		249.
77	4 4 1345	.7	.076	.002	.180	.061				22.00	12.00	4.20		236. 85

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : BLACK RIVER

STREAM : NEFF RUN

LOCATION W/CODE : NEAR LITCHFIELD, OHIO

USGS NO. 04199800

SAMPLING DATE	TIME 2400	FLOW CFS	TOTAL PHOS. MG/L	ORTHOPHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPENDED SOLIDS MG/L	CHLORIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
YR MO DY	MRS.													
77	4	4	1555	.7	.065	.005	.222	.003		15.00	13.20	4.69		254.
77	4	4	1625	.7	.055	.006	.175	.003		1.00	13.40	4.70		256.
77	4	5	25	.7	.082	.009	.120	.003		23.00	20.80	4.69		292.
77	4	5	225	4.6	.100	.006	.274	.003		58.00	17.70	5.09		265.
77	4	5	1305	5.1	.100	.088	.266	.160		45.00	10.70	5.19		210.
77	5	17	1255		.062	.005	.074	.143		9.00	46.20	1.03		696.
77	5	23	1925		.100	.003	.042	.050		5.00	52.80	.93		816.
77	6	6	1335	2.0	.100	.001	.814	.258		35.00	84.40	2.24		950.
77	6	6	1730	1.9	.070	.010	.390	.173		35.00	68.60	2.36		889.
77	6	6	1920	2.0	.065	.006	.561	.285		38.00	71.20	2.39		816.
77	6	6	2240	2.0	.050	.014	1.010	.253		46.00	78.30	2.20		851.
77	6	6	2300	2.0	.125	.030	.459	.263		31.00	73.80	2.21		728.
77	6	7	25	2.0	.112	.003	.525	.195		30.00	66.60	2.45		878.
77	6	7	125	2.0	.060	.007	.483	.180		32.00	66.90	2.46		684.
77	6	7	305	2.0	.041	.006	.548	.175		34.00	83.30	2.47		729.
77	6	7	510	2.0	.060	.031	.502	.228		35.00	70.30	2.42		808.
77	6	7	540	2.0	.331	.007	.680	.204		34.00	66.60	2.38		811.
77	6	7	730	2.0	.053	.010	.417	.268		28.00	70.30	2.40		823.
77	6	7	800	2.0	.089	.007	.515	.362		33.00	67.70	2.41		832.
77	6	7	1005	2.0	.085	.010	.641	.348		41.00	65.50	2.36		844.
77	6	7	1035	2.0	.095	.002	.420	.250		33.00	73.00	2.40		872.
77	6	7	1255	2.0	.116	.005	.420	.255		26.00	70.60	2.40		811.
77	6	7	1325	2.0	.105	.005	.402	.133		28.00	86.10	2.33		812.
77	6	7	1540	2.0	.085	.010	.410	.190		23.00	69.70	2.39		850.
77	6	7	1605	2.0	.090	.018	.403	.240		24.00	68.00	2.40		785.
77	6	7	1800	2.0	.086	.006	.458	.310		22.00	65.50	2.43		859.
77	6	7	1830	2.0	.125	.006	.412	.250		18.00	70.00	2.38		819.

PLUM CREEK
AT
OBERLIN, OHIO

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : BLACK RIVER

STREAM : PLUM CREEK

LOCATION W/CODE : AT OBERLIN, OHIO

USGS NO. 84200100

SAMPLING TIME	FLOW	TOTAL	ORTH	NO-2	NH-3	ORG.	TOTAL	COD	SUSPEND	CHL	SI	IRON	COND
DATE 2400	CFS	PHOS.	PHOS.	NO-3		NIT.	KJELD		SOLIDS	RIDE	02		25C.
YR MO DY HRS.		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UMHO
77 3 11 1345		.063	.007	.880	.008				11.00	68.00	4.50		789.
77 3 18 1050	98.0	.256	.035	1.140	.003				84.00	35.70	4.70		354.
77 3 18 1340	108.0	.214	.008	1.370	.003				98.00	19.90	4.24		268.
77 3 18 1640	109.0	.268	.056	1.700	.005				37.00	17.20	4.31		244.
77 3 18 1845	103.0	.166	.015	1.940	.003				44.00	16.80	4.36		236.
77 3 18 2040	101.0	.114	.015	2.290	.003				42.00	15.60	4.59		239.
77 3 18 2245	63.5	.086	.033	2.510	.004				7.00	18.80	4.85		252.
77 3 19 45	59.0	.128	.053	2.620	.005				54.00	17.30	5.04		255.
77 3 19 330	43.0	.112	.018	2.750	.005				33.00	18.80	5.38		268.
77 3 19 650	26.0	.108	.017	2.810	.005				27.00	19.40	5.74		287.
77 3 19 850	25.5	.108	.030	2.780	.005				26.00	20.60	5.90		296.
77 3 19 1210	25.0	.118	.016	2.750	.005				26.00	24.40	6.22		329.
77 3 19 1545	25.0	.106	.006	2.530	.008				20.00	27.60	6.53		353.
77 3 19 1940	24.5	.110	.012	2.680	.005				30.00	26.10	6.72		360.
77 3 19 2300	24.5	.095	.005	2.670	.004				19.00	25.40	6.72		366.
77 3 20 505	24.1	.099	.017	2.690	.060				52.00	29.80	6.50		390.
77 3 20 1025	25.0	.085	.005	2.190	.005				29.00	33.00	6.60		398.
77 3 20 1535	27.5	.078	.015	2.440	.003				34.00	26.40	6.28		365.
77 3 20 1950	26.0	.085	.005	2.810	.004				34.00	25.50	6.58		358.
77 3 21 215	24.0	.076	.007	2.980	.003				58.00	32.50	6.27		378.
77 3 21 830	23.5	.245	.153	2.910	.003				23.00	33.30	6.82		403.
77 3 31 430	23.5	.157	.066	.920	.003				17.00	36.60	4.81		466.
77 4 2 1000	58.0	.440	.013	.604	.003				433.00	41.50	4.56		310.
77 4 2 1115	86.0	.453	.014	.630	.003				339.00	27.50	4.41		288.
77 4 2 1600	92.0	.192	.014	.766	.118				286.00	22.40	4.72		248.
77 4 2 1930	84.0	.519	.016	.858	.303				203.00	19.60	5.57		256.
77 4 2 2300	103.0	.558	.014	.920	.070				413.00	19.50	6.03		252.
77 4 3 400	100.0	.265	.015	.905	.023				360.00	20.00	5.62		228.
77 4 3 830	68.0	.162	.012	.960	.003				237.00	16.70	5.79		233.
77 4 3 1230	44.0	.307	.012	.915	.037				193.00	15.40	6.15		250.
77 4 3 1600	31.0	.270	.015	.970	.003				114.00	14.10	6.46		267.
77 4 3 1915	26.0	.258	.021	.940	.045				101.00	15.30	6.64		285.
77 4 4 430	24.0	.124	.014	1.170	.117				64.00	23.20	6.63		352.
77 4 4 930	24.0	.068	.014	1.150	.636				40.00	22.60	6.40		368.
77 4 4 1330	23.7	.140	.011	1.130	.003				32.00	26.60	6.45		399.
77 5 17 1338		.067	.014	.100	.003				12.00	96.40	1.80		956. 89

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : BLACK RIVER

STREAM : PLUM CREEK

LOCATION W/CODE : AT OBERLIN, OHIO

USGS NO. 84200100

SAMPLING DATE	TIME 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
77	5 23 2120		.147	.029	.249	.003				75.00	66.00	1.76		790.
77	6 20 1430	23.5	.160	.122	.400	.856				13.00	303.00	3.76		1260.
77	6 20 1600	23.5	.160	.143	.500	.196				8.00	263.00	3.65		1260.
77	6 20 1915	23.5	.130	.117	.400	.116				1.00	243.00	3.45		1220.
77	6 20 2315	23.5	.160	.118	.450	.200				20.00	228.00	3.40		1210.
77	6 21 330	23.5	.224	.085	.480	.230				35.00	212.00	3.26		1180.
77	6 21 530	23.5	.130	.088	.450	.130				7.00	267.00	3.42		1160.
77	6 21 815	23.5	.120	.056	.500	.150				11.00	199.00	3.40		1160.
77	6 24 1400	23.0	.176	.111	.300	.200				48.00	128.00	1.05		1000.
77	6 25 30	23.0	.124	.088	3.650	.148				24.00	123.00	1.35		965.
77	6 25 530	34.0	.288	.183	2.720	.380				80.00	66.90	3.40		976.
77	6 25 830	25.0	.288	.018	1.150	.312				167.00	60.30	3.43		453.
77	6 25 1330	24.5	.288	.020	6.000	.450				40.50	49.00	5.00		914.
77	6 25 1515	24.7	.220	.027	9.250	.590				8.00	101.00	6.40		654.
77	6 25 1700	25.0	.440	.350	4.250	.370				55.00	104.00	6.02		809.
77	6 25 2130	28.5	.340	.208	5.700	.690				111.00	76.40	6.14		684.
77	6 26 30	28.5	.320	.095	5.470	.650				171.00	76.40	5.85		560.
77	6 26 345	24.5	.368	.089	5.420	.430				134.00	53.90	6.10		536.
77	6 26 630	24.3	.280	.094	6.300	.476				91.00	66.90	6.48		536.
77	6 26 815	24.2	.260	.084	6.320	.440				71.00	53.20	6.60		541.
77	6 26 1300	24.1	.244	.150	7.020	.300				61.00	51.90	6.95		558.
77	6 26 1400	24.1	.196	.114	6.850	.300				77.00	52.80	6.90		556.
77	6 26 1530	24.1	.202	.046	7.450	.250				42.00	54.10	7.00		567.
77	6 26 1630	24.1	.304	.130	7.050	.284				41.00	55.00	7.12		568.
77	6 26 1900	24.1	.228	.138	7.650	.320				31.40	71.50	7.28		588.
77	6 27 400	23.8	.188	.082	8.100	.200				20.00	60.90	8.05		630.
77	6 27 815	23.8	.120	.129	8.850	.120				23.00	60.00	8.16		638.
77	6 27 1345	23.7	.176	.130	7.900	.100				14.00	64.40	7.65		657.
77	6 27 1500	23.7	.170	.128	8.800	.096				9.00	62.00	7.45		654.
77	6 27 1545	23.7	.201	.143	8.250	.204				25.00	62.00	7.35		657.
77	6 28 815	23.5	.130	.104	7.790	.130				13.00	68.00	7.45		700.

CUYAHOGA RIVER
AT WEST THIRD STREET BRIDGE
IN CLEVELAND, OHIO

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : 2 W. 3RD ST. IN CLEVELAND, OHIO

USGS NO. 04208506

SAMPLING DATE	TIME 2400 HRS.	FLOW CFS	TOTAL SOLIDS MG/L	TOT DIS SOLIDS MG/L	TOTAL ORG C MG/L	DIS. ORG C MG/L	TOTAL C MG/L	SOL PHOS MG/L
75 1 8 1530	4620.			456.0	15.0	9.0	30.0	
75 1 8 1530	4620.			449.0	17.0	9.0	32.0	
75 1 9 1010	6450.			399.0	10.0	11.0	27.0	
75 1 9 1010	6450.			341.0	13.0	11.0	26.0	
75 1 9 1110	6450.			300.0	12.0	12.0	31.0	
75 1 9 1110	6450.			307.0	12.0	9.0	26.0	
75 1 9 1210	6515.			321.0	17.0	10.0	26.0	
75 1 9 1210	6515.			262.0	18.0	18.0	26.0	
75 1 9 1345	6610.			262.0	22.0	8.0	26.0	
75 1 9 1345	6610.			274.0	23.0	17.0	25.0	
75 1 9 1635	6880.			296.0	24.0	11.0	27.0	
75 1 9 1635	6880.			269.0	23.0	13.0	30.0	
75 1 10 1115	4410.			281.0	20.0	17.0	37.0	
75 1 10 1115	4410.			287.0	19.0	11.0	30.0	
75 2 22 2200			425.0	406.0			31.0	
75 2 22 2300					13.0	10.0		.14
75 2 23 100			450.0	433.0			33.0	
75 2 23 200					10.0	10.0		.07
75 2 23 300								
75 2 23 400			457.0	419.0	15.0	10.0	30.0	
75 2 23 500								.13
75 2 23 600								
75 2 23 700			671.0	416.0			29.0	
75 2 23 800					11.0	10.0		.12
75 2 23 900								
75 2 23 1000			771.0	413.0			29.0	
75 2 23 1100					13.0	8.0		.11
75 2 23 1200								
75 2 23 1300			846.0	379.0			27.0	
75 2 23 1400					15.0	8.0		.10
75 2 23 1500								
75 2 23 1600			708.0	278.0			27.0	
75 2 23 1700					16.0	9.0		.11
75 2 23 1800								
75 2 23 1900			776.0	355.0			30.0	
75 2 23 2000					9.0	8.0		

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : 8 W. 3RD ST. IN CLEVELAND, OHIO

USGS NO. 04208506

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL SOLIDS MG/L	TOT DIS SOLIDS MG/L	TOTAL ORG C MG/L	DIS. ORG C MG/L	TOTAL C MG/L	SOL PHOS MG/L
75 2 23 2100							.15
75 2 23 2200		642.0	338.0			29.0	
75 2 23 2300				9.0	8.0		
75 2 23 2400							.15
75 2 24 100		742.0	376.0			29.0	
75 2 24 400				10.0	7.0		
75 2 24 700							.08
75 2 24 1000		1143.0	280.0			23.0	
75 2 24 1300	9200.			13.0	9.0		
75 2 24 1600							.08
75 2 24 1900		1054.0	255.0			21.0	
75 2 24 2200				11.0	9.0		
75 2 25 100							.07
75 2 25 400		660.0	264.0			24.0	
75 2 25 700				9.0	9.0		
75 2 25 1000							.06
75 2 25 1300		517.0	274.0			22.0	
75 2 25 1600				10.0	9.0		
75 2 25 1900							.05
75 2 25 2200		456.0	308.0			24.0	
75 2 26 100				9.0	8.0		
75 2 26 400							.12
75 2 26 700		453.0	332.0			23.0	
75 2 26 1000				10.0	10.0		
75 2 26 1300		423.0	334.0			23.0	
75 2 26 1600				10.0	10.0		
75 2 26 1900							.05
75 2 26 2200							
75 2 27 100		408.0	305.0			24.0	
75 2 27 400				9.0	9.0		
75 2 27 700							.06
75 2 27 1000		384.0	303.0			23.0	
75 2 27 1300	5230.			9.0	9.0		
75 2 27 1600		389.0	237.0	10.0	7.0	24.0	
75 2 27 1900		583.0	522.0			50.0	
75 3 21 2000				19.0	15.0		

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CORPS OF ENGINEERS BUFFALO N Y BUFFALO DISTRICT

F/O 6/6

WATER QUALITY DATA FOR LAKE ERIE BASIN SMALL WATERSHED SAMPLING--ETC(U)
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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : @ W. 3RD ST. IN CLEVELAND, OHIO

USGS NO. 04208506

SAMPLING DATE	TIME 2400 YR MO DY HRS.	FLOW CFS	TOTAL SOLIDS MG/L	TOT DIS SOLIDS MG/L	TOTAL ORG C MG/L	DIS. ORG C MG/L	TOTAL C MG/L	SOL PHOS MG/L
75	5 21 2200		529.0	464.0			38.0	
75	5 21 2300				15.0	15.0		
75	5 22 100		501.0	417.0			38.0	
75	5 22 200				14.0	13.0		
75	5 22 400		678.0	388.0			34.0	
75	5 22 500				15.0	14.0		
75	5 22 700		2392.0	272.0			37.0	
75	5 22 800				18.0	14.0		
75	5 22 1000		3315.0	375.0			45.0	
75	5 22 1100				14.0	12.0		
75	5 22 1300	10900.	2913.0	425.0			42.0	
75	5 22 1400				14.0	12.0		
75	5 22 1600		2378.0	330.0			40.0	
75	5 22 1700				13.0	12.0		
75	5 22 1900		1266.0	266.0			35.0	
75	5 22 2000				14.0	13.0		
75	5 22 2200		838.0	266.0			29.0	
75	5 22 2400				11.0	10.0		
75	5 23 400		529.0	287.0			28.0	
75	5 23 600				12.0	10.0		
75	5 23 1000		521.0	319.0			30.0	
75	5 23 1200				13.0	10.0		
75	5 23 1600		499.0	331.0			33.0	
75	5 23 1800				13.0	10.0		
75	5 23 2200		498.0	374.0			30.0	
75	5 23 2400				12.0	12.0		
75	5 24 400		454.0	374.0			31.0	
75	5 24 600				12.0	11.0		
75	5 24 1000		465.0	377.0			31.0	
75	5 24 1200				13.0	12.0		
75	5 24 1600		436.0	374.0			34.0	
75	5 24 1800				12.0	12.0		
75	5 24 2200		466.0	410.0			33.0	
75	5 24 2400				12.0	12.0		
75	5 25 400		477.0	431.0			33.0	
75	5 25 600				13.0	11.0		
75	5 27 900	1122.	454.0	414.0	13.0	11.0	35.0	

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : @ W. 3RD ST. IN CLEVELAND, OHIO

USGS NO. 04208506

SAMPLING DATE	TIME 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJEL MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLOR RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
75	1 8 1530	4620.	1.490	.020	1.030	1.500	.700		99.00		129.00		8.70	
75	1 8 1530	4620.	1.680	.020	1.060	1.500	1.900		103.00		130.00		8.00	
75	1 9 1010	6450.	1.220	.020	.873	.900	.400		80.00		65.00		7.40	
75	1 9 1010	6450.	.960	.020	.863	.800	.400		78.00		66.00		7.60	
75	1 9 1110	6450.	1.120	.020	.845	.800	.400		73.00		67.00		7.60	
75	1 9 1110	6450.	1.020	.020	.923	.800	.400		70.00		62.00		6.20	
75	1 9 1210	6515.	1.950	.020	1.000	.800	.500		80.00		58.00		6.40	
75	1 9 1210	6515.	.950	.020	.994	.800	.400		79.00		64.00		6.10	
75	1 9 1345	6610.	.840	.020	.859	.800	.400		60.00		61.00		4.90	
75	1 9 1345	6610.	.770	.020	.906	.800	.400		49.00		64.00		5.60	
75	1 9 1635	6800.	.980	.020	.876	.800	.400		66.00		59.00		7.20	
75	1 9 1635	6800.	.950	.020	.824	.800	.400		72.00		61.00		5.70	
75	1 10 1115	4410.	.800	.030	.498	1.000	1.000		47.00		69.00		2.20	
75	1 10 1115	4410.	.610	.020	.405	1.000	1.000		34.00		64.00		5.70	
75	2 22 2200									19.00				
75	2 22 2300		.300	.050	1.200	2.100	1.000	3.100		17.00				
75	2 23 100					2.300	1.200	3.500						
75	2 23 200													
75	2 23 300		.310	.030	1.130					38.00				
75	2 23 400					2.100	1.300	3.400						
75	2 23 500													
75	2 23 600		.450	.060	1.050					258.00				
75	2 23 700					1.700	1.000	2.700						
75	2 23 800		.760	.080	.986					358.00				
75	2 23 900													
75	2 23 1000					1.000	1.000	2.000						
75	2 23 1100													
75	2 23 1200		.390	.100	1.030					467.00				
75	2 23 1300					.900	.900	1.800						
75	2 23 1400		.400	.050	.929					430.00				
75	2 23 1500					.800	.900	1.700						
75	2 23 1600													
75	2 23 1700		.390	.060	.910					421.00				
75	2 23 1800													
75	2 23 1900													
75	2 23 2000							1.800						

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : 8 W. 3RD ST. IN CLEVELAND, OHIO

USGS NO. 04208506

SAMPLING DATE YR MO DY	TIME 2400 HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
75	2 23 2100		.440	.060	.842									
75	2 23 2200							1.800		304.00				
75	2 23 2300													
75	2 23 2400		1.010	.080	.822					366.00				
75	2 24 100													
75	2 24 400					1.900	1.200	.700						
75	2 24 700		.760	.030	.741					863.00				
75	2 24 1000													
75	2 24 1300	9200.				.600	1.200	1.800						
75	2 24 1600		.730	.020	.687					799.00				
75	2 24 1900													
75	2 24 2200					.700	1.100	1.800						
75	2 25 100		.780	.020	.771					394.00				
75	2 25 400													
75	2 25 700					.600	1.000	1.600						
75	2 25 1000		.490	.020	.823					243.00				
75	2 25 1300													
75	2 25 1600					.700	.600	1.300						
75	2 25 1900	9610.	.320	.020	.813					148.00				
75	2 25 2200													
75	2 26 100					.700	.600	1.300						
75	2 26 400		.300	.020	.896					121.00				
75	2 26 700													
75	2 26 1000					.800	.600	1.400						
75	2 26 1300		.250	.020	.982					89.00				
75	2 26 1600													
75	2 26 1900					.900	.800	1.700						
75	2 26 2200		.230	.020	.865					95.00				
75	2 27 100													
75	2 27 400					1.100	1.400	2.500						
75	2 27 700		.230	.020	.883					81.00				
75	2 27 1000													
75	2 27 1300	5230.				1.100	.800	1.900						
75	2 28 1800		.380	.020	.921	.300	.300	.600		152.00				
75	5 21 1900				1.270					61.00	123.00			798.
75	5 21 2000					5.400	.800	6.200						97

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : 8 W. 3RD ST. IN CLEVELAND, OHIO

USGS NO. 04208506

SAMPLING DATE	TIME 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHOPHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLORIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
75	5 21 2100	4258.	.530	.170										
75	5 21 2200				.840									
75	5 21 2300					4.000	.300	4.300		65.00	110.00			716.
75	5 21 2400		.240	.060										
75	5 22 100				1.110					164.00	77.00			540.
75	5 22 200					3.100	.800	3.900						
75	5 22 300	7393.	.500	.090										
75	5 22 400				.970					290.00	77.00			507.
75	5 22 500					2.200	1.300	3.500						
75	5 22 600		.230	.060										
75	5 22 700				.920					2120.00	61.00			372.
75	5 22 800					1.300	.900	2.200						
75	5 22 900	10851.	.380	.050										
75	5 22 1000				1.400					2940.00	42.00			333.
75	5 22 1100					1.100	.600	1.700						
75	5 22 1200		.450	.060										
75	5 22 1300	10900.			1.040					2488.00	36.00			326.
75	5 22 1400					1.100	1.300	2.400						
75	5 22 1500		.300	.060										
75	5 22 1600	8480.			1.120					2048.00	39.00			352.
75	5 22 1700					1.000	.800	1.800						
75	5 22 1800		.220	.060										
75	5 22 1900				1.110					1000.00	39.00			346.
75	5 22 2000					.500	1.200	1.700						
75	5 22 2100	5304.	.260	.070										
75	5 22 2200				.350					572.00	51.00			403.
75	5 22 2400					1.100	1.000	2.900						
75	5 23 200		.610	.120										
75	5 23 400				.430					242.00	45.00			408.
75	5 23 600					1.100	1.400	2.500						
75	5 23 800		.450	.130										
75	5 23 1000				.320					202.00	56.00			456.
75	5 23 1200					1.200	1.200	2.400						
75	5 23 1400	1106.	.400	.130										
75	5 23 1600				.390					168.00	66.00			504.
75	5 23 1800					1.400	1.000	2.400						

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : B W. 3RD ST. IN CLEVELAND, OHIO

USGS NO. 04200506

SAMPLING DATE	TIME 2400	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLOR RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
YR	MO	DAY	HRS.											
75	5	23	2000	.360	.100									
75	5	23	2200			.360				124.00	74.00			566.
75	5	23	2400				2.200	.600	2.800					
75	5	24	200	.690	.070									
75	5	24	400			.320				80.00	74.00			590.
75	5	24	600				3.000	.400	3.400					
75	5	24	800	.310	.140									
75	5	24	1000			.310				88.00	74.00			590.
75	5	24	1200				2.400	.800	3.200					
75	5	24	1400	.340	.130									
75	5	24	1600			.300				62.00	78.00			590.
75	5	24	1800				2.400	.800	3.200					
75	5	24	2000	.300	.140					56.00	90.00			615.
75	5	24	2200			.300								
75	5	24	2400				3.000	.300	3.300					
75	5	25	200	.260	.100									
75	5	25	400			.300				46.00	90.00			640.
75	5	25	600				3.200	.700	3.900					
75	5	25	900	1122.	.310	.090	1.120		3.100	40.00	76.00			495.

**BIG CREEK
AT
CLEVELAND, OHIO**

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LANE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : BIG CREEK

LOCATION W/CODE : AT CLEVELAND, OHIO

USGS NO. 04208502

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHOPHOS. MG/L	NO-2 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPENDED SOLIDS MG/L	CHLORIDE MG/L	S102 MG/L	IRON MG/L	COND 25C. UMHO
77 4 3 2320	106.9	.270	.142	1.170	.555				57.00	115.00	9.56		829.
77 4 4 1155	76.0	.195	.084	1.290	.415				48.00	155.00	9.46		1016.
77 4 4 1615	85.0	.354	.151	1.180	.885				30.00	142.00	9.60		980.
77 4 4 1740	83.0	.385	.256	1.040	.490				39.00	154.00	9.05		992.
77 5 17 1056	21.0	.255	.130	.394	.003				6.00	148.00	4.95		960.
77 5 23 2050	58.3	1.300	.725	.560	.410				60.00	127.00	6.43		875.
77 6 6 1415	47.0	.250	.051	1.380	.980				13.00	92.80	4.92		675.
77 6 6 1545	41.0	.165	.051	1.380	1.350				4.00	102.00	5.66		735.
77 6 6 1800	51.6	.200	.104	1.320	1.140				6.00	116.00	7.14		805.
77 6 6 1830	53.0	.613	.420	1.540	1.390				83.00	131.00	6.69		895.
77 6 6 1900	54.0	.305	.105	1.460	1.640				10.00	111.00	6.36		775.
77 6 6 2100	49.0	.213	.109	1.210	.703				7.00	88.00	6.33		745.
77 6 7 1045	23.0	.205	.084	.950	.685				6.00	166.00	6.55		1165.
77 6 7 1115	22.0	.197	.066	.972	.658				34.00	176.00	6.45		1175.
77 6 7 1300	21.0	.198	.104	.930	.583				10.00	168.00	6.86		1175.
77 6 7 1330	21.0	.189	.079	.930	.540				37.00	153.00	6.78		1180.
77 6 7 1615	21.6	.225	.071	.880	.670				22.00	194.00	6.66		1410.
77 6 7 1645	20.0	.313	.144	.881	.683				17.00	197.00	6.78		1440.
77 6 7 1845	20.0	.224	.055	5.120	.935				26.00	209.00	6.54		1480.
77 6 7 1900	20.6	.220	.094	1.020	.930				17.00	204.00	6.66		1420.
77 6 7 1930	20.0	.269	.072	.965	.960				22.00	243.00	6.72		1420.
77 6 7 2000	20.0	.480	.287	.946	1.080				15.00	198.00	7.02		1427.
77 6 7 2030	20.0	.220	.045	.928	1.340				26.00	203.00	7.22		1455.
77 6 7 2100	20.0	.236	.080	.854	1.260				20.00	211.00	7.16		1455.
77 6 7 2130	19.0	.200	.064	.872	1.300				30.00	209.00	7.23		1490.
77 6 7 2200	19.0	.184	.064	.780	1.320				20.00	205.00	7.18		1472.

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LAKF ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : BIG CREEK

LOCATION W/CODE : AT CLEVELAND, OHIO

USGS NO. 04208502

SAMPLING DATE	TIME 2400	FLOW CFS	TOTAL PHOS. MG/L	ORTHOC PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
YR	MO	DAY	HRS.											
77	3	18	1246	908.0	.160	.021	1.420	.150		137.00	121.00	6.19		626.
77	3	18	1452	743.0	.290	.016	1.450	.049		481.00	114.00	6.59		642.
77	3	18	1755	464.0	.466	.064	1.480	.120		303.00	122.00	7.14		706.
77	3	18	1905	457.0	.310	.006	1.520	.370		280.00	133.00	7.45		764.
77	3	18	2350	265.0	.246	.008	1.600	.340		102.00	157.00	8.39		856.
77	3	19	115	238.0	.252	.016	1.580	.485		95.00	170.00	8.55		924.
77	3	19	1202	133.0	.260	.003	1.350	.610		66.00	286.00	7.76		1440.
77	3	19	1325	131.0	.154	.003	1.480	.580		82.00	235.00	9.34		1220.
77	3	19	1521	127.0	.298	.005	1.520	.575		39.00	219.00	8.87		1100.
77	3	19	1652	122.0	.188	.034	1.510	.465		27.00	202.00	9.29		1100.
77	3	19	1915	124.0	.134	.026	1.510	.340		44.00	196.00	8.85		1040.
77	3	19	2315	137.0	.218	.031	1.340	.117		66.00	194.00	8.50		1042.
77	3	20	1350	251.0	.326	.085	1.160	.483		87.00	168.00	7.32		882.
77	3	20	1540	233.0	.154	.059	1.190	.083		91.00	186.00	7.86		882.
77	3	20	1710	210.0	.230	.072	1.180	.290		90.00	205.00	8.27		1050.
77	3	20	1845	197.0	.185	.040	1.190	.063		100.00	183.00	8.22		962.
77	3	21	2105	161.0	.200	.038	1.240	.003		67.00	155.00	8.30		894.
77	3	20	2300	137.0	.126	.013	1.190	.180		24.00	182.00	8.21		932.
77	3	21	1926	76.0	.355	.098	1.320	.595		35.00	218.00	9.42		1140.
77	3	21	2045	74.0	.321	.116	1.310	.240		27.00	200.00	9.23		1060.
77	4	2	1105	566.0	.258	.041	.640	.438		774.00	68.30	5.16		474.
77	4	2	1510	299.0	.645	.163	.808	.615		312.00	86.90	6.94		602.
77	4	2	1535	292.0	.690	.158	.623	.388		334.00	80.30	5.23		532.
77	4	2	1745	368.0	.461	.155	.790	.488		227.00	94.80	7.76		636.
77	4	2	1926	323.0	.430	.146	.952	.415		184.00	106.00	8.13		680.
77	4	2	2008	301.0	.395	.144	.908	.480		136.00	99.20	8.20		665.
77	4	2	2150	283.0	.710	.052	.580	.235		959.00	85.10	7.20		627.
77	4	2	2340	997.0	.720	.023	.448	.005		1168.00	54.80	6.16		446.
77	4	3	830	240.0	.264	.068	1.120	.194		169.00	82.60	8.18		604.
77	4	3	1145	208.0	.320	.144	1.190	.663		98.00	94.00	8.86		670.
77	4	3	1220	202.0	.295	.134	1.210	.763		108.00	92.10	8.80		670.
77	4	3	1515	175.0	.336	.194	1.170	.908		82.00	98.00	9.22		714.
77	4	3	1655	159.0	.279	.176	1.170	1.000		74.00	98.40	9.32		730.
77	4	3	1815	148.0	.270	.176	1.180	.720		64.00	101.00	9.34		743.
77	4	3	1945	133.0	.285	.150	1.200	.605		78.00	106.00	9.45		778.
77	4	3	2050	124.0	.313	.155	1.190	.405		58.00	109.00	9.52		785. 103

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : BIG CREEK

LOCATION W/CODE : AT CLEVELAND, OHIO

USGS NO. 04208502

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHOPHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPENDED SOLIDS MG/L	CHLORIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
77 4 3 2320	106.9	.270	.142	1.170	.555				57.00	115.00	9.56		829.
77 4 4 1155	76.0	.195	.084	1.290	.415				48.00	155.00	9.46		1016.
77 4 4 1615	85.0	.354	.151	1.180	.885				30.00	142.00	9.60		980.
77 4 4 1740	83.0	.385	.256	1.040	.490				39.00	154.00	9.05		992.
77 5 17 1056	21.0	.255	.130	.394	.003				6.00	148.00	4.95		960.
77 5 23 2050	58.3	1.300	.725	.560	.410				60.00	127.00	6.43		875.
77 6 6 1415	47.0	.250	.051	1.380	.980				13.00	92.80	4.92		675.
77 6 6 1545	41.0	.165	.051	1.380	1.350				4.00	102.00	5.66		735.
77 6 6 1800	51.0	.200	.104	1.320	1.140				6.00	116.00	7.14		805.
77 6 6 1830	53.0	.613	.420	1.540	1.390				83.00	131.00	6.69		895.
77 6 6 1900	54.0	.305	.105	1.460	1.040				10.00	111.00	6.36		775.
77 6 6 2100	49.0	.213	.109	1.210	.703				7.00	88.00	6.33		745.
77 6 7 1045	23.0	.205	.084	.952	.685				6.00	166.00	6.55		1165.
77 6 7 1115	22.0	.197	.066	.972	.658				34.00	176.00	6.45		1175.
77 6 7 1300	21.0	.198	.104	.930	.583				10.00	168.00	6.86		1175.
77 6 7 1330	21.0	.189	.079	.930	.540				37.00	153.00	6.78		1180.
77 6 7 1615	21.0	.225	.071	.880	.670				22.00	194.00	6.66		1410.
77 6 7 1645	20.0	.313	.144	.881	.683				17.00	197.00	6.78		1440.
77 6 7 1845	20.0	.224	.055	5.120	.935				26.00	209.00	6.54		1480.
77 6 7 1900	20.0	.220	.094	1.020	.930				17.00	204.00	6.66		1420.
77 6 7 1930	20.0	.269	.072	.965	.960				22.00	243.00	6.72		1420.
77 6 7 2000	20.0	.480	.267	.946	1.080				15.00	198.00	7.02		1427.
77 6 7 2030	20.0	.220	.045	.924	1.340				26.00	203.00	7.22		1455.
77 6 7 2100	20.0	.236	.080	.854	1.260				20.00	211.00	7.16		1455.
77 6 7 2130	19.0	.200	.064	.872	1.300				30.00	209.00	7.23		1490.
77 6 7 2200	19.0	.184	.064	.780	1.320				20.00	205.00	7.18		1472.

TINKERS CREEK
AT
BEDFORD, OHIO

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : TINKERS CREEK

LOCATION W/CODE : AT BEDFORD, OHIO

USGS NO. 04207200

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COMO 25C. UMNO
76 11 30 1625	37.8	1.300	.980	4.510	.052				17.40	145.00	7.36		1275.
76 12 1 1625	36.0	1.540	1.230	3.360	.060				13.40	131.00	7.32		1186.
76 12 2 1630	30.2	1.340	1.060	3.880	.033				14.70	147.00	7.24		1322.
76 12 4 1645	27.3	1.410	1.110	3.470	1.240				12.00	143.00	8.40		1316.
76 12 6 1615	28.0	1.280	.941	3.860	.542				15.00	145.00	7.36		1301.
76 12 7 915	176.5	2.000	.211	.030	1.350				215.00	200.00	6.26		2610.
76 12 7 1625	110.5	1.030	.044	2.250	.033				73.00	195.00	6.21		1957.
76 12 8 1625	96.7	.746	.418	2.200	.048				30.00	161.00	7.85		1406.
76 12 10 1615	69.2	.859	.537	2.560	.046				27.00	178.00	7.74		1663.
76 12 10 1620	51.1	.879	.606	2.490	.010				13.00	173.00	8.00		1640.
76 12 11 1130	96.7	.683	.361	2.170	.063				35.00	175.00	7.23		1621.
76 12 13 1640	66.0	.651	.398	2.490	.194				22.10	127.00	7.99		1070.
76 12 14 1605	60.9	.988	.575	3.360	.213				21.00	129.00	8.84		1094.
76 12 15 1625	41.5	1.200	.823	1.870	1.250				5.20	125.00	8.54		1059.
76 12 16 1630	38.7	1.140	.812	1.470	1.560				18.50	124.00	8.66		1055.
76 12 17 1615	40.6	1.350	1.020	1.860	1.060				1.60	120.00	8.09		1100.
76 12 18 1430	36.9	1.030	.742	1.760	.850				20.40	133.00	8.22		1160.
76 12 20 950	139.4	.993	.368	1.430	.813				200.00	169.00	6.07		1607.
76 12 20 1250	320.5	1.720	.120	.550	.775				661.00	169.00	7.70		1747.
76 12 20 1625	231.3	1.670	.335	.730	.698				365.00	150.00	7.26		1209.
76 12 22 1625	108.5	.903	.588	1.470	.701				32.00	139.00	7.60		1181.
76 12 28 1500	51.1	.728	.489	1.800	1.260				16.30	161.00	7.69		1465.
76 12 29 1605	44.6	1.030	.761	1.490	1.160				12.90	164.00	8.25		1096.
76 12 30 1625	70.8	1.010	.720	1.580	1.130				21.10	159.00	8.00		1462.
77 1 6 1200	43.0	1.280	.915	1.190	2.000		4.100		17.30	153.00	8.60		1433.
77 1 6 1201	43.0	1.220	.913	4.540	.017		1.100		19.00	157.00	11.60		
77 1 7 1625	41.0	1.580							20.00				
77 1 8 1140	47.0	1.350							20.00				
77 1 15 1150	35.0	1.440							15.00				
77 1 22 1100	36.0	1.560							11.00				
77 1 24 1610	32.0	1.070							12.00				
77 1 25 1625	31.7	1.140							12.00				
77 1 26 1620	30.0	1.380							12.00				
77 2 2 900	54.0	1.460	1.140	1.510	1.920		3.360		14.40	139.00	11.00		
77 2 2 901	54.0	1.410	1.120	3.530	.022		.928		15.20	135.00			
77 2 4 1640	36.0	1.390							17.90				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : TINKERS CREEK

LOCATION W/CODE : AT BEDFORD, OHIO

USGS NO. 04207200

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL NITRO MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLOR RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
77 2 5 1125	38.0	1.660							19.00				
77 2 8 1625	91.0	1.250							32.90				
77 2 9 1650	64.0	1.360							17.80				
77 2 10 1620	44.0	1.120							34.10				
77 2 11 1615	130.1	1.490							170.00				
77 2 12 915	127.7	.668							54.90				
77 2 14 1125	188.6	.431							41.60				
77 2 14 1615	191.7	.610							60.60				
77 2 15 1630	157.3	.837							89.30				
77 2 16 1640	128.0	.778							67.70				
77 2 17 1640	112.0	.864							34.70				
77 2 18 830	102.3	.490	.187	2.400	.058		.928		11.10	177.00			
77 2 18 831	102.3	.475	.268	2.600	.056		.720		41.20	166.00	8.57		1430.
77 2 18 1640	106.0	.615	.189	2.150	.180		1.040		44.20	150.00	8.34		1384.
77 2 19 1110	86.0	.398	.275	2.400	.562		.720		23.20	156.00	8.40		1237.
77 2 21 1620	78.9	.564	.290	1.800	.669		1.070		30.10	181.00	9.39		1208.
77 2 22 1620	96.7	.695	.244	1.970	.295		1.450		88.60	181.00	8.97		1632.
77 2 23 900	283.8	.648	.175	1.780	.122		1.050		110.00	174.00	7.81		1516.
77 2 23 1155	387.0	.853	.183	.340	.750		1.250		209.00	151.00	7.47		1491.
77 2 23 1625	1125.3	3.800	.192	.320	.753		3.950		1332.00	152.00	7.71		1881.
77 2 24 905	1165.4	.726	.089	1.640	.109		1.800		422.00	130.00	6.81		871.
77 2 24 1250	1796.8	1.320	.077	.870	.256		3.500		1410.00	122.00	6.85		753.
77 2 24 1655	1712.5	.869	.088	1.540	.179		3.110		657.00	112.00	6.51		652.
77 2 25 910	1157.3	.400	.061	1.590	.070		1.090		185.00	96.00	5.34		550.
77 2 25 1630	1205.9	.688	.288	1.490	.101		.960		186.00	92.60	6.89		522.
77 2 26 925	1010.4	.236	.054	1.390	.131		.720		26.00	84.30	5.66		475.
77 2 28 1635	351.0	.259	.116	1.320	.304		.830		79.00	99.10	7.19		597.
77 3 1 1625	217.8	.402	.282	1.250	.371		1.030		45.80	105.00	6.79		652.
77 3 2 1625	146.7	.593	.399	1.040	.678		1.350		59.60	110.00	7.78		719.
77 3 3 1000	132.0	.429	.242	1.060	.717		1.730		33.00	108.00	7.50		788.
77 3 3 1615	127.7	.585							25.70				
77 3 4 920	249.5	.524							79.30				
77 3 4 1625	346.7	.547							173.00				
77 3 5 1140	257.0	.266							34.30				
77 3 7 1625	139.4	.235							20.00				
77 3 8 1625	114.6	.333							69.70				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : TINKERS CREEK

LOCATION W/CODE : AT REDFORD, OHIO

USGS NO. 04207200

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
77 3 9 1630	106.4	.373							50.73				
77 3 10 1625	98.5	.643							12.50				
77 3 11 1625	85.7	.372							14.00				
77 3 12 1145	72.4	.819							15.20				
77 3 14 1005	566.5	.333							129.00				
77 3 14 1615	535.4	.418							106.00				
77 3 15 920	359.9	.241							53.40				
77 3 15 1400	316.2	.298	.135	.910	.216		.890		53.70	91.10	7.13		557.
77 3 15 1401	316.2	.287	.111	1.220	.205		1.400		51.30	76.80	5.95		557.
77 3 15 1615	283.8	.284							51.40				
77 3 16 950	188.6	.328							31.40				
77 3 16 1620	167.8	.656							30.00				
77 3 17 1600	123.0	.400							19.00				
77 3 18 1010	1549.6	.984	.090	1.110	.166		1.630		1165.00	78.50	5.07		525.
77 3 18 1330	1660.6	.867	.091	1.240	.194		1.130		850.00	74.80	5.73		473.
77 3 18 1625	1415.2	.583	.097	1.250	.247		1.700		508.00	75.30	5.51		474.
77 3 19 1145	765.3	.309	.079	1.090	.329		1.500		131.00	71.50	5.53		430.
77 3 21 955	429.4	.192							23.70				
77 3 21 1630	424.6	.224							22.60				
77 3 22 925	772.3	.500	.115	1.090	.171		1.400		334.00	81.30	6.33		580.
77 3 23 1005	429.4	.234	.095	1.080	.200		.800		30.70	79.80	5.85		557.
77 3 23 1645	565.3	.386	.158	1.100	.203		.800		232.00	84.90	5.40		686.
77 3 24 1635	307.8	.232	.017	.870	.381		.730		42.00	75.30	6.62		536.
77 3 25 1045	207.6	.222							41.20				
77 3 26 1145	132.4	.276							15.70				
77 3 28 1620	424.6	.886	.253	.390	.621		1.700		96.30	93.20	6.65		683.
77 3 29 1215	342.3	.355	.187	.760	.218		1.100		44.30	82.90	6.27		604.
77 3 29 1216	342.3	.345	.196	1.120	.063		.889		57.40	85.90	7.89		612.
77 3 29 1630	307.8	.330							42.10				
77 3 30 1615	197.8	.381							24.20				
77 3 31 1620	123.0	.705							16.70				
77 4 1 1625	94.8	.478							15.90				
77 4 2 915	843.2	1.320	.045	.100	.319		5.130		1793.00	79.90	6.78		562.
77 4 2 1145	956.7	.981	.147	.740	.660		2.360		732.00	69.90	5.37		495.
77 4 4 1620	541.3	.357	.135	.990	.341		2.660		61.20	58.60	5.73		433.
77 4 5 940	505.9	.300							55.10				109

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : TINKERS CREEK

LOCATION W/CODE : AT BEDFORD, OHIO

USGS NO. 84207288

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMMO
77 4 5 1630	396.0	.282							44.10				
77 4 8 1625	132.4	.363							61.30				
77 4 11 1700	82.1	.343							12.60				
77 4 12 1620	69.2	.509							7.80				
77 4 13 930	68.9	.797	.575	1.400	.112		1.080		29.40	102.00	3.95		451.
77 4 13 931	60.9	.798	.597	1.550	.037		.700		12.20	99.70	4.20		757.
77 4 13 1620	62.2	.560							8.30				
77 4 14 1620	52.2	.434							9.00				
77 4 18 1635	59.7	.577							37.80				
77 4 19 1615	47.9	.606							11.70				
77 4 20 1610	41.5	.963							12.20				
77 4 21 1625	48.6	.623							6.80				
77 4 22 1640	98.5	1.110							66.10				
77 4 23 1030	342.3	.582							123.00				
77 4 25 940	410.1	.298							49.60				
77 4 25 1640	342.3	.508							59.60				
77 4 26 1015	231.3	.294							27.40				584.
77 4 26 1330	227.9	.317	.146	.030	.118		1.000		25.70	73.80	7.32		588.
77 4 26 1331	227.9	.291	.168	1.200	.041		.300		40.50	75.00	5.67		584.
77 4 26 1545	217.8	.355							22.20				
77 4 27 1620	127.7	.400							13.30				
77 4 28 1640	96.7	.487							11.40				
77 4 29 1615	77.3	.546							10.10				
77 4 30 1105	63.5	.604							11.90				
77 5 2 1150	144.1	.557							194.00				
77 5 2 1620	188.6	.485							187.00				
77 5 3 1140	106.4	.404							13.20				
77 5 3 1615	104.4	.569							10.30				
77 5 4 1340	211.0	.482							69.10				
77 5 4 1625	224.5	1.010							203.00				
77 5 5 1140	182.6	.435							32.10				
77 5 5 1615	200.8	.417							30.60				
77 5 6 1635	112.5	.985							11.90				
77 5 9 1640	46.8	.802							11.40				
77 5 10 1630	40.6	.830							11.60				
77 5 11 1600	36.0	1.040	.497	2.230	.045		1.070		9.00	84.70	6.80		796.

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : TINKERS CREEK

LOCATION W/CODE : AT BEDFORD, OHIO

USGS NO. 04207200

SAMPLING DATE YR MO DY	TIME 2400 HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLOR RIDE MG/L	S102 MG/L	IRON MG/L	COND 25C. UMHO
77	5 11 1601	36.0	1.070	.382	2.710	.066		1.000		9.40	80.60	3.50		789.
77	5 12 1620	35.0	1.030							6.20				
77	5 13 1705	32.5	1.010							9.00				
77	5 14 1125	30.2	1.270							7.30				
77	5 16 1635	25.8	1.480							8.00				
77	5 17 1635	26.5	1.480							11.30				
77	5 18 1610	31.7	1.570							9.30				
77	5 19 1640	31.0	.961							17.00				
77	5 20 1630	24.6	1.570							24.00				
77	5 23 1620	25.8	1.670							9.50				
77	5 24 1600	37.8	.707	.306	2.520	.060		.950		58.80	77.30	4.01		641.
77	5 24 1601	37.8	.714	.496	2.360	.795				66.20	92.10	6.47		656.
77	5 24 1605	37.8	.743							44.50				
77	5 25 1620	26.5	1.570							12.20				
77	5 26 1645	20.8	2.050							12.90				
77	5 27 1605	18.1	2.220							19.20				
77	5 31 1630	17.6	1.430							89.80				
77	6 1 1615	20.8	.935							27.00				
77	6 2 1650	25.8	1.570							2.80				
77	6 3 1610	20.8	1.690							6.60				
77	6 6 1635	53.3	1.300							13.90				
77	6 7 1330	20.8	1.310	.603	2.730	.312				20.70	93.30	7.19		837.
77	6 7 1331	20.8	1.240	.995	4.270	.123		.920		19.70	92.90	8.10		832.
77	6 7 1620	29.5	.870							15.50				
77	6 8 1621	20.8	1.550							10.10				
77	6 9 950	311.8	1.080	.311	2.090	.205		2.450		481.00	77.40	5.17		683.
77	6 9 1620	96.7	.733	.292	2.460	.160				101.00	76.40	5.26		678.
77	6 11 1005	23.9	1.420							8.30				
77	6 13 1625	20.2	1.410							8.00				
77	6 14 1640	20.8	1.600							11.10				
77	6 15 1610	19.1	1.790							15.10				
77	6 16 1605	17.6	1.850							5.40				
77	6 17 1600	19.1	1.910							3.60				
77	6 18 1015	149.4	1.290	.313	.620	.417		3.210		779.00	82.30	6.97		621.
77	6 30 1625	737.7			.850	.772		4.240			57.20	7.16		492.
77	7 6 1430	21.5			4.370	.352		1.190			92.50	10.90		710.

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : TINKERS CREEK

LOCATION W/CODE : AT BEDFORD, OHIO

USGS NO. 04207200

SAMPLING DATE	TIME 2400	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CMLD RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
YR	MO	DAY	HRS.											
77	7	6	1431	21.5	1.670	1.450	4.170	.039	1.300	11.20	95.90	9.33		817.
77	7	6	1635	23.9	1.720					35.90				
77	7	7	1650	23.3						8.40				
77	7	8	955	104.4	.870	.443	1.600	.036	1.020	177.00	72.10	9.22		554.
77	7	8	1525	94.8	.751					126.00				
77	7	9	1050	51.1	1.100					120.00				
77	7	11	1635	23.9	1.850					8.70				
77	7	12	1655	29.5	1.180					25.30				
77	7	13	915	66.8	.837	.381	1.090	.065	1.040	321.00	68.00	8.69		535.
77	7	13	1640	44.6	.775					69.90				
77	7	14	1540	31.0	.961					13.90				
77	7	16	1005	176.5						6.20				
77	7	19	1120	566.5	1.450	.213	.380	.578	3.350	1751.00	75.70	7.37		583.
77	7	20	915	104.4	.578					145.00				
77	7	20	945	104.4	.565					122.00				
77	7	20	1620	106.4	.769					61.10				
77	7	21	1550	45.7	1.030					45.80				
77	7	22	1540	39.6	1.010					21.40				
77	7	23	1030	31.7	1.790					7.30				
77	7	25	950	157.3	1.420	.213	1.530	.199	3.500	1456.00	95.70	8.14		763.
77	7	25	1540	179.5	1.190	.292	.900	.243	2.900	508.00	64.70	6.55		487.
77	7	26	955	120.7	.653					129.00				
77	7	26	1610	114.6	.917					188.00				
77	7	27	1700	41.5	.839					50.20				
77	7	28	1635	28.0	1.180					13.80				
77	7	29	1620	23.3	1.490					9.20				
77	7	30	1115	40.6	.620					71.40				
77	8	1	1615	30.2	1.130					48.50				
77	8	2	1500	23.3		.968	.710	1.040	4.400	29.10	85.00	11.20		894.
77	8	2	1501	23.3		.655	.400		6.610	27.40	79.00	10.78		883.
77	8	4	1710	23.9						2.20				
77	8	5	1235	93.0	1.200					293.00				
77	8	16	900	182.6	.533	.112	.370	.010	.860	71.50	46.90			404.
77	8	22	1105	191.7	.609					171.00				
77	8	22	1640	224.5	.539					115.60				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : TINKERS CREEK

LOCATION W/CODE : AT BEDFORD, OHIO

USGS NO. 04207200

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
77 8 23 1635	260.7	.733							107.00				
77 8 24 1630	82.1	.617							35.30				
77 8 25 1630	52.2	.538							23.20				
77 8 26 900	182.6	.550	.328	.900	.037		.913		75.00	43.60	8.29		415.
77 8 26 1615	39.6	.665							26.90				
77 8 29 1710	93.0	.630							308.00				
77 8 30 1400	27.3	1.030							27.50				
77 8 30 1400	27.3	1.030							20.60				
77 8 30 1655	31.7	.975							17.90				
77 8 31 1705	28.0	1.190							22.80				
77 9 1 1710	25.8	1.460							21.10				
77 9 2 1550	27.3								14.40				
77 9 3 955	22.1								12.90				
77 9 6 1710	22.1	1.470							17.20				
77 9 7 1710	19.1	1.140							12.50				
77 9 8 1635	17.6	1.710							13.70				
77 9 9 1700	18.1	1.680							15.60				
77 9 10 1200	27.3								35.40				
77 9 11 1635	17.1								8.60				
77 9 12 1645	18.1	1.120							22.10				
77 9 13 1325	55.8	1.620							42.40				
77 9 14 1145	137.0	.686	.334	1.550	.048		1.463		135.00	71.20	7.45		559.
77 9 14 1146	137.1	.608	.291	1.630	.057		.883		150.00	76.70	7.88		572.
77 9 14 1705	102.3	.581							188.00				
77 9 15 1240	91.2	.772							150.00				
77 9 15 1705	127.7	.713	.340	1.790	.062		.276		117.00	79.30	8.27		635.
77 9 16 920	291.8	.814	.290	1.260	.057		3.150		306.00	79.80	8.29		614.
77 9 16 1710	410.1	.680	.252	.990	1.270		1.310		385.00	72.10	7.92		514.
77 9 17 925	238.4	.435							135.00				
77 9 17 1645	291.8	.415							121.00				
77 9 19 1225	116.6	.422							53.10				
77 9 19 1720	114.6	.639							50.70				
77 9 20 1715	124.7	.683							68.30				
77 9 21 1715	118.0	.683							68.30				
77 9 22 1710	68.9	.483							67.20				
77 9 23 1710	46.8	.920							34.80				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : TINKERS CREEK

LOCATION W/CODE : AT BEDFORD, OHIO

USGS NO. 04207200

SAMPLING DATE	TIME 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMMO
77	9 24 1515	36.9	.684							27.50				
77	9 26 1515	48.9	.707							55.30				
77	9 26 1516	48.9	.704							50.90				
77	9 26 1715	47.9	.615							52.30				
77	9 27 1710	31.7	.941							25.20				
77	9 28 1714	28.8	1.010							27.50				
77	9 29 1710	25.2	1.410							21.80				
77	9 30 1710	23.3								40.20				
77	10 1 1440	94.8	.885							66.10				
77	10 3 1740	51.1	.627							21.90				
77	10 4 1710	44.6	1.030							21.00				
77	10 5 1740	33.2	1.140							17.70				
77	10 6 1715	37.8	1.170							17.50				
77	10 7 1720	27.3	1.320							22.00				
77	10 8 1125	94.8	.996							46.00				
77	10 10 1715	118.7	.698							93.80				
77	10 11 1000	74.1	.865							49.70				
77	10 11 1000	74.1	.869							37.50				
77	10 11 1715	74.1	1.060							30.00				
77	10 12 1710	48.9	.699							23.70				
77	10 13 1715	43.5	.674							17.10				
77	10 14 1715	37.8	1.010							15.80				
77	10 15 1415	31.7	.896							7.90				
77	10 17 1745	45.7	.545							12.40				
77	10 18 1640	55.8	.553							16.20				
77	10 19 1655	41.5	.713							18.90				
77	10 20 1720	33.2	1.070							17.40				
77	10 21 1500	32.5	1.380							17.50				
77	10 21 1500	32.5	1.280							17.00				
77	10 21 1650	35.0	1.540							32.80				
77	10 22 1155	30.2	1.240							28.40				
77	10 24 1715	28.0	1.090							16.00				
77	10 25 1725	28.0	1.170							24.10				
77	10 26 1720	30.2	1.910							15.80				
77	10 27 1725	35.0	1.710							17.60				
77	10 28 1650	25.8	1.400							11.50				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : TINKERS CREEK

LOCATION W/CODE : AT BEDFORD, OHIO

USGS NO. 04207200

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
77 10 29 1130	21.5	1.670							10.60				
77 10 31 1630	28.0	1.550							18.10				
77 11 1 1715	27.3	1.530							14.40				
77 11 2 1715	26.5								11.60				
77 11 3 1710	25.2	1.890							14.20				
77 11 4 1020	31.7	1.760							31.90				
77 11 4 1610	85.7	1.120							62.30				
77 11 5 1220	29.5	1.280							9.70				
77 11 7 1030	611.4	1.360	.306	.130	.236		2.810		668.00	51.00	6.99		480.
77 11 7 1710	185.6	.641	.308	1.030	.048		1.430		104.00	59.70	7.43		832.
77 11 8 1710	138.1	.689							36.70				
77 11 9 1655	77.3	.625							26.70				
77 11 10 900	324.9	.621	.278	1.180	.121		1.090		167.00	62.10	7.50		562.
77 11 10 900	324.9	.646	.363	1.490	.039		1.120		207.00	63.70	7.86		584.
77 11 10 1715	316.2	.557							127.00				
77 11 11 1645	224.5	.544							68.00				
77 11 12 1145	197.8	.511							86.40				
77 11 14 1710	134.7	.611							28.80				
77 11 15 1640	279.8	.430							63.20				
77 11 16 1010	268.1	.352							49.50				
77 11 16 1700	405.3	.448							77.50				
77 11 17 920	609.6	.388							153.00				
77 11 17 1710	469.2	.327							94.30				
77 11 18 1655	382.5	.314							88.50				
77 11 19 1135	316.2	.268							45.30				
77 11 21 1700	139.4	.524							46.10				
77 11 22 1655	125.4	.542							27.80				
77 11 23 1620	96.7	.649							21.60				
77 11 25 1655	70.8	.372							16.30				
77 11 28 1630	87.6	.844							24.20				
77 11 29 1635	77.3	.668							18.30				
77 11 30 920	186.4	.584							28.10				
77 11 30 1640	597.0	.697	.245	1.290	.025		1.300		230.00	166.00	8.64		1458.
77 12 1 945	738.9	.355							120.00				

CHIPPEWA CREEK
NEAR
BRECKSVILLE, OHIO

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CHIPPEWA CREEK

LOCATION W/CODE : NEAR BRECKSVILLE, OHIO

USGS NO. 04206450

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
77 2 2 1000	5.0	.706	.563	2.360	1.390		2.260		4.20	155.00	10.90		
77 2 2 1001	5.0	.592	.538	3.860			.550		5.30	150.00			
77 2 3 1015	5.0	.585							4.80				
77 2 11 955	5.0	.685							10.50				
77 2 12 1035	75.0	.340							28.00				
77 2 12 1240	75.0	.327							43.20				
77 2 12 1415	75.0	.322							39.70				
77 2 12 1550	75.0	.284							35.20				
77 2 13 1300	150.0	.235							50.70				
77 2 13 1430	150.0	.231							41.40				
77 2 13 1615	150.0	.215							37.50				
77 2 14 1025	50.0	.207							18.60				
77 2 14 1350	50.0	.215							23.60				
77 2 15 1025	20.0	.222							12.50				
77 2 15 1635	20.0	.210							10.90				
77 2 16 1040	15.0	.207							13.50				
77 2 17 910	15.0	.237							6.60				
77 2 17 1100	15.0	.227	.187	2.210	.010		.333		8.70	200.00			
77 2 17 1101	15.0	.219	.197	2.180	.055		.680		9.10	199.00	7.81		1861.
77 2 21 1235	10.0	.333	.086	2.730	.052		.460		21.60	180.00	8.80		1555.
77 2 24 1020	430.0	.610	.052	1.470	.059		2.810		831.00	104.00	5.91		584.
77 2 24 1335	430.0	1.310	.054	1.520	.046		3.900		1811.00	91.20	5.26		585.
77 2 25 900	114.0	.208	.080	1.510	.157		.600		81.80	110.00	6.63		727.
77 2 26 920	54.0	.125	.093	1.540	.143		.720			124.00	6.53		844.
77 2 27 045	54.0	.142	.107	1.510	.208		.430			135.00	6.77		947.
77 2 28 1100	40.0	.149	.123	1.520	.297		.470		11.80	122.00	6.95		918.
77 3 2 900	13.0	.165	.134	2.000	.071		.488		2.00	137.00	9.46		1059.
77 3 3 920	13.0	.216							3.50				
77 3 7 925	22.0	.276							3.30				
77 3 10 1015	13.0	.236							3.30				
77 3 13 1330	62.0	.179							62.10				
77 3 14 1000	65.0	.146							17.90				
77 3 16 1030	22.0	.185	.143	1.370	.173		.820		.60	127.00	7.19		960.
77 3 16 1031	22.0	.181	.136	1.450	.105		.691		5.10	103.00	6.98		955.
77 3 17 1105	17.0	.182							4.20				
77 3 18 1405	380.0	.767	.079	1.180	.152		2.440			79.10	6.26		529. 119

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CHIPPEWA CREEK

LOCATION W/CODE : NEAR BRECKSVILLE, OHIO

USGS NO. 04206450

SAMPLING DATE YR MO DY	TIME 2400 HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHOPHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLORIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
77	3 19	920	82.0	.159						43.10				
77	3 21	920	47.0	.122						15.60				
77	3 22	1020	148.0	.380	.083	1.010	.088	1.690		356.00	66.10	6.19		
77	3 23	1025	54.0	.121						10.90				
77	3 24	905	50.0	.130						12.60				
77	3 28	1040	84.0	.251	.102	.960	.297	1.320			74.00	6.24		369.
77	3 29	1120	50.0	.168						29.00				
77	3 29	1415	50.0	.183	.113	.990	.289	.809		16.70	70.70	7.08		542.
77	3 29	1416	50.0	.170	.139	.930		.656		17.00	74.70	6.83		545.
77	3 31	1045	20.0	.168						2.80				
77	4 2	905	203.0	1.380	.038	.230	.274	4.530		4328.00	89.00	6.41		627.
77	4 3	1315	70.0	.141						36.60				
77	4 4	1015	44.0	.134						5.50				
77	4 5	1050	54.0	.143						43.80				
77	4 7	1110	29.0	.186						2.80				
77	4 11	1045	12.0	.194										
77	4 13	1430	12.0	.179	.164	.850	.101	.621		.40	91.70	4.69		831.
77	4 13	1431	12.0	.219	.173	.940	.025	.240		3.90	88.90	3.81		854.
77	4 14	1030	14.0	.164						2.10				
77	4 18	1025	11.0	.145						2.50				
77	4 21	1020	11.0	.201						2.80				
77	4 23	1055	102.0	.315						55.50				
77	4 23	1535	102.0	.257						819.00				
77	4 25	1025	46.0	.280						8.70				
77	4 26	1025	47.0	.533						7.80				
77	4 27	930	10.0	.187	.146	.740	.109	.390		.40	77.20	5.78		658.
77	4 27	930	10.0	.231	.183	1.230	.048	.280		4.70	76.80	5.11		658.
77	4 28	931	17.0	.156										
77	5 2	1055	30.0	.156						6.00				
77	5 5	1255	43.0	.184						3.00				
77	5 9	1020	13.0	.171						1.40				
77	5 10	1730	11.0	.178	.164	1.130	.050	.020		8.10	81.60	5.00		881.
77	5 10	1731	11.0	.182		2.640	.094	.240		3.10	74.80	4.45		885.
77	5 13	905	13.0	.186						2.50				
77	5 16	1100	11.0	.196						2.70				
77	5 20	1050	11.0	.212						1.10				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CHIPPEWA CREEK

LOCATION W/CODE : NEAR BRECKSVILLE, OHIO

USGS NO. 04206450

SAMPLING DATE	TIME 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CMLO RIDE MG/L	SI02 MG/L	IRON MG/L	COMO 25C. UMMO
77	5 23 1025	11.0	.281							2.30				
77	5 24 1300	10.0	.444	.335	2.310	.073		.570		2.20	76.00	5.78		1011.
77	5 24 1301	10.0	.654	.460	2.150	.199		.789		11.30	88.20	6.38		1016.
77	5 27 940	7.0	.505							4.80				
77	5 31 1005	7.0	.396							4.20				
77	6 3 1020	11.0	.445							4.20				
77	6 7 1055	10.0	.471							3.90				
77	6 8 930	6.0	.373	.348	2.140	.091		.417		4.80	96.70	7.09		1074.
77	6 8 931	6.0	.468	.342	2.230	.134		.400		2.10	96.70	9.83		515.
77	6 9 1040	57.0	.774							204.00				
77	6 10 1035	12.0	.350							9.30				
77	6 13 1130	11.0	.345							5.00				
77	6 17 915	11.0	.317							17.90				
77	6 18 1030	20.0	.471	.148	1.760	.134		1.420		305.00	67.10	6.09		515.
77	6 19 1030	10.0	.263							12.80				
77	6 20 1235	11.0	.229							7.40				
77	7 6 1246	8.0	.456	.261	1.330	.074		.740		176.00	96.30	10.70		968.
77	7 7 1210	8.0	.329							14.70				
77	7 14 1245	11.0	.256							32.50				
77	7 18 1150	10.0	.314							31.00				
77	7 19 1330	62.0	2.470	.073	.900	.116		7.050		4520.00	55.40	7.82		465.
77	7 19 1400	62.0	2.030	.161	1.050	.044		4.830		2800.00	56.00	8.88		472.
77	7 19 1401	62.0	2.000	.161	.230	.039		6.570		2916.00	54.90	8.84		476.
77	7 20 1100	16.0	.474							164.00				
77	7 21 1125	11.0	.289							17.70				
77	7 22 940	13.0	.363							74.60				
77	7 25 1250	15.0	.023	.145	1.370	.013		2.670		738.00	53.20	6.81		429.
77	7 28 645	10.0	.249							19.20				
77	7 28 655	10.0	.050							19.70				
77	7 30 1015	13.0	.540							88.50				
77	8 1 1045	12.0	.351							14.60				
77	8 2 1630	9.0	.300	.255	.090	.076		.063		9.70	80.50	5.62		866.
77	8 2 1630	9.0	.396	.081	1.370			.250		9.00	65.70			724.
77	8 16 1000	5.0	.105	.756	.010			.210		13.50		1.13		773.
77	8 16 1000	5.0	.133	.103	1.470	.052		.770		8.40	62.80	10.40		767.
77	8 22 840	5.0	.226							63.20				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CHIPPEWA CREEK

LOCATION W/CODE : NEAR BRECKSVILLE, OHIO

USGS NO. 84286450

SAMPLING TIME DATE 2400 YR MO DY MRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHOPHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLOR RIDE MG/L	SIO2 MG/L	IRON MG/L	CONO 25C. UMNO
77 8 23 1750	5.0	.131							7.40				
77 8 25 1145	3.0	.112							5.70				
77 8 29 915	3.0	.088							6.30				
77 8 29 1600	3.0	.110							71.50				
77 8 29 1600	3.0	.233							150.00				
77 9 2 1045	4.0	.197							55.20				
77 9 5 1020	3.0	.110							2.70				
77 9 8 1045	3.0	.123							20.80				
77 9 13 1210	4.0	.245							59.40				
77 9 14 1045	5.0	.411	.265	1.630	.013		.854		81.40	69.40	8.18		641.
77 9 14 1045	5.0	.416	.271	1.640	.050		1.480		181.00	76.00	8.80		639.
77 9 14 1210	5.0	.366							82.20				
77 9 15 1050	3.0	.205	.227	1.630	.051		.725		14.60	83.50	9.22		821.
77 9 16 1010	29.0	.507	.261	1.680	.053		1.420		208.00	88.00	8.20		592.
77 9 17 1010	28.0	.261	.242	1.450	.066		1.360		37.40	76.98	8.38		585.
77 9 20 845	4.0	.197	.194	1.610	.188		.663		10.80	88.78	8.68		879.
77 9 22 950	4.0	.247							9.50				
77 9 27 845	5.0	.206							7.10				
77 9 27 845	5.0	.198							8.80				
77 9 27 1645	5.0	.197							11.00				
77 9 30 930	4.0	.177							9.00				
77 10 3 1020	4.0	.322							14.50				
77 10 7 1035	26.0	.257							16.50				
77 10 9 1410	4.0	.510							240.80				
77 10 10 1145	4.0	.315							13.40				
77 10 11 815	4.0	.260							12.20				
77 10 11 815	4.0	.299							7.20				
77 10 13 1200	5.0	.270							7.20				
77 10 17 1125	5.0	.450							12.80				
77 10 20 1030	5.0	.340							8.90				
77 10 22 1200	4.0	.286							10.10				
77 10 24 1110	4.0	.279							5.80				
77 10 28 1200	4.0	.270											
77 10 31 1045	5.0	.264											
77 11 3 1710	4.0	.232							7.60				
77 11 4 1655	5.0	.384							34.60				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CHIPPEWA CREEK

LOCATION W/CODE : NEAR BRECKSVILLE, OHIO

USGS NO. 84286450

SAMPLING TIME	FLOW	TOTAL	ORTHO	NO-2	NH-3	ORG.	TOTAL	COD	SUSPEND	CHLOR	SIO2	IRON	COND
DATE 2400	CFS	PHOS.	PHOS.	NO-3		NIT.	KJELD		SOLIDS	RIDE			25C.
YR MO DY HRS.		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UMHO
77 11 7 1020	85.0	.854	.186	.800	.041		1.980		501.00	38.60	5.86		440.
77 11 8 1440	28.0	.317							9.90				
77 11 9 1630	5.0	.279							6.20				
77 11 9 1630	5.0	.297							9.60				
77 11 10 935	74.0	.356							131.00				
77 11 14 1215	24.0	.277							7.00				
77 11 16 835	80.0	.232							49.10				
77 11 17 1120	92.0	.265							211.00				
77 11 18 1840	36.0	.171							18.80				
77 11 20 930	19.0	.267							16.80				
77 11 23 900	11.0	.247							5.40				
77 11 29 1000	14.0	.259							10.20				

BRANDYWINE CREEK
AT
JAITE, OHIO

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : BRANDYWINE CREEK

LOCATION W/CODE : AT JAITE, OHIO

USGS NO. 04206420

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTH PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
77 2 2 1030	5.0	2.000	1.660	.170	2.000		10.800		36.00	114.00	11.10		
77 2 2 1031	5.0	3.330	1.750	4.380	.024		.838		38.40	110.00			
77 2 4 930	5.0	2.430							17.90				
77 2 7 1400	5.0	2.610							22.00				
77 2 9 100	5.0	2.670							21.60				
77 2 11 1130	10.2	3.160							176.00				
77 2 12 800	25.0	.678							87.10				
77 2 12 1200	25.0	1.320							218.00				
77 2 12 1630	25.0	1.740							358.00				
77 2 14 730	62.7	.547							50.00				
77 2 14 1200	56.3	.470							42.90				
77 2 14 1600	46.6	.450							32.90				
77 2 16 1000	62.7	.391							30.50				
77 2 17 1230	72.0	.447	.296	2.720	.015		.745		30.10	167.00			
77 2 17 1230	72.0	.399	.263	2.560	.113		1.010		30.70	158.00	8.20		1330.
77 2 18 1030	56.3	.430	.320	2.600	.291		.900		11.30	149.00	8.38		1234.
77 2 21 1530	17.0	1.020	.640	.230	2.290		4.580		98.20	132.00	8.34		1076.
77 2 26 1200	284.0	.232	.126	1.430	.410		.910		80.50	109.00	6.99		785.
77 2 26 1600	273.0	.247	.137	1.290	.468		1.170		47.80	109.00	7.15		723.
77 2 28 800	131.0	.248	.130	1.220	.458		.830		47.30	108.00	7.29		717.
77 2 28 1200	131.0	.259	.136	1.270	.516		.580		62.20	108.00	6.91		786.
77 2 28 1600	131.0	.267	.141	1.280	.570		.610		49.70	107.00	7.14		788.
77 3 1 800	94.0	.427							105.00				
77 3 1 900	94.0	.439	.181	1.380	.577		1.230		126.00	104.00	7.54		719.
77 3 1 1230	94.0	.403	.224	1.180	.879		.620		83.10	103.00	7.76		726.
77 3 1 1600	94.0	.525	.199	1.350	.675		1.040		285.00	107.00	7.51		761.
77 3 2 830	69.0	.376	.176	1.250	.771		.980		67.00	109.00	7.44		766.
77 3 2 1230	69.0	.414	.167	1.240	.752		1.640		105.00	108.00	7.27		745.
77 3 2 1530	69.0	.419	.239	2.230	.065		.630		58.20	110.00	9.27		774.
77 3 2 1600	69.0	.409	.126	1.170			1.340		94.10	110.00	7.48		772.
77 3 3 1400	47.5	.449							42.10				
77 3 4 1330	71.1	.387							118.00				
77 3 7 930	30.9	.405							131.00				
77 3 9 1000	18.0	.723							75.20				
77 3 11 930	16.0	.838							34.50				
77 3 13 830	132.0	.258							63.40				

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : BRANDYWINE CREEK

LOCATION W/CODE : AT JAITE, OHIO

USGS NO. 04206420

SAMPLING TIME DATE 2400 YR MO DY MRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
77 3 13 1600	132.0	.260							55.50				
77 3 14 730	179.4	.281							61.90				
77 3 14 1300	142.6	.263							60.30				
77 3 14 1600	142.6	.284							75.00				
77 3 15 1000	58.5	.292							40.20				
77 3 15 1030	58.5	.360	.087	.810	.369		1.410		111.60	95.30	7.83		639.
77 3 15 1031	58.5	.350	.121	1.210	.078		1.370		117.60	83.60	7.57		650.
77 3 17 1400	27.6	.397	.229	1.800	.078		1.110		334.00	88.40	7.73		733.
77 3 18 730	662.8	.979	.079	.990	.060		3.520		1315.00	61.90	5.11		419.
77 3 18 1030	1083.0	.766	.053	.910	.019		2.390		957.00	59.50	5.49		390.
77 3 18 1330	1589.0	.596	.056	.860	.022		1.920		658.00	52.30	5.41		329.
77 3 19 830	455.1	.225							103.00				
77 3 19 1630	371.9	.250	.100	1.130	.051		.895		57.50	68.00	6.59		500.
77 3 21 1400	190.4	.830	.126	1.200	.051		2.650		956.00	70.70	7.06		544.
77 3 22 800	252.3	.450	.112	.990	.080		3.820		290.00	75.20	6.99		505.
77 3 22 1200	420.0	.350	.093	.960	.038		1.010		239.00	69.00	6.33		485.
77 3 22 1530	491.2	.324	.092	1.060	.142		1.420		165.00	70.20	6.94		503.
77 3 23 1000	231.0	.205	.084	1.000	.062		.872		37.80	72.70	7.78		531.
77 3 25 1300	102.7	.301	.162	1.360	.251		2.300		29.66	72.70	7.81		607.
77 3 28 730	129.8	.514	.129	.940	.442		3.510		221.00	75.90	6.24		673.
77 3 28 1200	293.2	.543	.176	.680	.492		2.700		93.90	75.70	6.26		593.
77 3 28 1545	137.5	.540	.168	.730	.376		1.790		72.60	75.70	6.28		602.
77 3 29 1000	95.7	.301	.109	.730	.272		2.260		66.70	68.20	6.73		539.
77 3 29 1430	79.7	.260	.113	.700	.295		1.390		52.80	67.80	6.76		540.
77 3 29 1431	79.7	.244	.145	.990			.796		58.50	67.60	7.14		538.
77 3 31 1430	38.0	.350							18.30				
77 4 4 730	207.4	.246							42.80				
77 4 4 1200	201.7	.242							43.40				
77 4 4 1545	213.2	.273							43.70				
77 4 5 730	511.7	.261							93.50				
77 4 5 1130	420.0	.261							93.20				
77 4 5 1530	371.9	.270							67.70				
77 4 6 1430	228.0	.284							27.40				
77 4 9 1030	24.7	.362							17.50				
77 4 11 1430	29.1	.384							25.40				
77 4 13 1500	19.3	.595	.479	1.540	.266		1.730		26.10	80.70	7.17		711.

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : BRANDYWINE CREEK

LOCATION W/CODE : AT JAITE, OHIO

USGS NO. 04206420

SAMPLING DATE	TIME 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJEL MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLOR RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
77	4 13 1501	19.3	.663	.458	1.820	.036		.730			78.20	6.96		714.
77	4 14 1100	16.8	.781							191.00				
77	4 18 1230	18.2	.711							148.00				
77	4 20 1130	18.2	.982							196.00				
77	4 22 1430	18.2	1.060							39.68				
77	4 25 1308	47.5	.289							27.30				
77	4 27 1000	24.7	.392	.167	.800	.153		1.030		97.80	65.30	7.63		597.
77	4 27 1001	24.7	.361	.188	1.130	.114		.470		97.00	68.40	6.21		600.
77	4 28 1300	18.2	.582							66.80				
77	5 2 800	18.2	.834							30.20				
77	5 2 1500	20.5	.886							87.70				
77	5 3 1400	29.1	.653							88.50				
77	5 4 1000	20.5	.690							47.10				
77	5 4 1400	49.7	1.410							512.00				
77	5 5 1300	36.2	.411							27.90				
77	5 9 1600	18.2	.842							149.00				
77	5 11 945	18.2	1.280							81.40				
77	5 12 1000	27.6	1.340	.827	3.120	.478		2.000		123.00	89.50	6.02		876.
77	5 12 1001	27.6	1.320	.761	3.000	.527		1.630		124.00	83.30	5.26		867.
77	5 13 1400	18.2	1.240							72.80				
77	5 16 1400	18.2	1.010							86.90				
77	5 18 1300	18.2	2.000							201.00				
77	5 20 1430	18.2	1.820							101.00				
77	5 23 1230	18.2	1.760							24.90				
77	5 24 1430	7.8	.829	.429	3.520	.100		2.200		38.50	76.30	6.60		755.
77	5 24 1431	7.8	.774	.528	2.500	.338		1.320		42.80	94.10	6.91		760.
77	5 25 1300	18.2	.950							20.00				
77	5 27 1300	18.2	1.500							16.10				
77	5 30 1000	18.2	1.970							19.70				
77	6 1 1200	18.2	2.400							12.70				
77	6 3 1430	18.2	2.000							17.80				
77	6 6 1100	18.2	2.320							19.90				
77	6 7 1500	3.0	2.320	1.700	4.720	2.060		6.500		16.50	127.00	11.60		1262.
77	6 7 1501	3.5	2.000		10.800	.066		1.160		20.90	136.00	11.40		1226.
77	6 13 1140	18.2	1.650							39.20				
77	6 17 930	18.2	2.600							78.30				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : BRANDYWINE CREEK

LOCATION W/CODE : AT JAITE, OHIO

USGS NO. 04206420

SAMPLING DATE	TIME 2400	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPENS SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COMD 25C. UMHO
YR	MO	DY	HRS.											
77	6	18	1040	26.2	2.080					241.00				
77	6	19	1040	10.2	1.510					35.80				
77	6	20	1245	10.2	1.780					50.10				
77	7	6	1215	33.6										773.
77	7	6	1216	33.6	1.680	1.340	4.600	.031	1.130	108.00	114.00	12.30		963.
77	7	7	1220	10.2	1.720					28.00				
77	7	11	1335	10.2	1.420					20.50				
77	7	14	1300	10.2	1.460					21.10				
77	7	18	1200	10.2	1.360					78.30				
77	7	19	1345	58.5	2.610					1584.00				
77	7	19	1410	168.7	2.370	.579	.040	.817	6.160	1420.00	54.70	7.09		424.
77	7	19	1411	168.7	2.880					1393.00				
77	7	20	1110	29.1	.753					63.00				
77	7	21	1135	10.2	.984					35.50				
77	7	22	955	10.2	1.010					95.50				
77	7	25	1300	115.0	.839					286.00				
77	7	30	1025	10.2	1.350					50.50				
77	8	1	1055	10.2	1.420					29.80				
77	8	2	1645	10.2	1.330	1.060	1.880	.167	1.040	32.20	98.20	8.41		886.
77	8	2	1645	10.2	1.320	.315	1.310	.010	.960	26.60	69.00			937.
77	8	16	945	33.6	.510	.257	1.110	.010	1.030	76.20	80.70			642.
77	8	16	945	33.6	.464	.189	1.880	.145	1.380	62.50	50.60	7.73		646.
77	8	22	050	77.6	.362					112.00				
77	8	23	1800	24.0	.755					81.60				
77	8	25	1155	38.0	1.210					632.00				
77	8	29	925	10.2	1.090					40.40				
77	8	29	1530	8.0	1.030					56.60				
77	8	29	1530	8.0	.982					57.70				
77	9	2	1055	10.2	1.400					42.90				
77	9	5	1035	10.2	1.300					22.40				
77	9	8	1055	10.2	1.570					29.50				
77	9	13	1220	10.2	1.800					166.00				
77	9	14	1100	24.7	.606	.300	1.470	.010	1.820	139.00	56.60	7.61		514.
77	9	14	1100	24.7	.600	.251	1.490	.078	.786	144.00	79.40	8.27		536.
77	9	14	1220	10.2	.620					113.00				
77	9	15	1110	10.2	.841	.397	1.830	.042	2.250	467.00	77.10	8.97		688.

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : BRANDYWINE CREEK

LOCATION W/CODE : AT JAITE, OHIO

USGS NO. 04206420

SAMPLING DATE	TIME 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
77	9 16 1020	124.8	.860	.300	1.640	.054		2.700		249.00	76.80	8.19		522.
77	9 17 1020	51.9	.319							95.10				
77	9 20 855	18.2	.454							72.10				
77	9 22 1005	10.2	.723							121.00				
77	9 27 915	15.0	1.230							81.70				
77	9 27 915	15.0	1.230							86.00				
77	9 27 1655	10.2	1.140							179.00				
77	10 3 1030	10.2	1.080							40.70	10.00			
77	10 7 1045	10.2	1.300							101.00				
77	10 9 1425	10.2	.716							99.60				
77	10 10 1200	10.2	1.540	.436	1.410	.010		2.760		1046.00	69.90	11.20		685.
77	10 11 830	20.0	.754							145.00				
77	10 11 830	10.2	.714							98.30				
77	10 13 1210	10.2	.669							22.70				
77	10 17 1135	10.2	1.060							32.50				
77	10 20 1040	10.2	1.300							48.90				
77	10 22 1230	10.2	1.560							28.10				
77	10 22 1230	10.2	1.550							27.30				
77	10 24 1120	10.2	1.610							31.70				
77	10 28 1645	10.2	1.510							20.10				
77	10 31 1055	10.2	1.600							15.20				
77	11 3 1720	10.2	1.320							24.90				
77	11 4 1705	10.2	1.860							52.60				
77	11 7 1030	100.0	2.550	.536	.460	.056		5.190		544.00	46.10	6.42		469.
77	11 8 1450	50.0	.623							48.90				
77	11 9 1600	50.0	.948							164.00				
77	11 9 1600	50.0	.924							168.00				
77	11 10 945	100.0	.923							350.00				
77	11 14 1225	30.0	.448							25.10				
77	11 16 845	24.7	.312							54.60				
77	11 17 1130	315.0	.552							204.00				
77	11 18 1050	88.7	.691	.159	1.050	.048		1.933		732.00	48.40	9.47		556.
77	11 20 940	60.0	.448							39.70				
77	11 23 919	10.2	.518							50.40				
77	11 29 1050	10.2	.543							27.10				

CUYAHOGA RIVER
AT
PENINSULA, OHIO

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT PENINSULA, OHIO

USGS NO. 04206400

SAMPLING DATE	TIME	FLOW	TOTAL PHOS.	ORTHO PHOS.	NO-2	NH-3	ORG. NIT.	TOTAL KJELD	COD	SUSPEND SOLIDS	CHLO RIDE	SIO2	IRON	COND 25C. URMH
YR	MO	DAY	HRS.	CFS	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
76	12	15	1415	322.3	.887	.619	3.280	.084		14.40	116.80	7.28		993.
76	12	16	900	331.6	.558	.320	3.650	.675		12.90	118.00	7.94		1035.
76	12	17	815	401.6	.559	.327	2.580	1.790		18.40	113.00	7.52		995.
76	12	18	830	331.6	.453	.232	4.420	.275		12.00	96.90	7.58		880.
76	12	19	1400	331.6	.483	.272	3.710	.338		11.60	88.90	7.31		822.
76	12	20	830	406.9	.338	.266	4.600	.559		15.50	88.70	7.08		835.
76	12	21	830	516.5	.480	.240	2.370	1.340		27.70	98.10	7.16		856.
76	12	21	1200	510.7	.320	.144	1.940	1.170		13.30	110.00	6.53		914.
76	12	22	830	444.0	.547	.246	2.440	1.680		18.00	140.00	7.31		1234.
76	12	23	830	427.7	.598	.366	2.450	1.740		11.50	128.00	7.47		1154.
76	12	24	1230	380.8	.628	.277	1.970	1.490		13.90	122.00	7.77		
76	12	27	830	482.2	.449	.182	2.320	1.470		15.80	118.00	6.57		969.
76	12	28	830	482.2	.539	.320	1.930	1.790		11.50	108.00	7.10		888.
76	12	29	830	406.0	.542	.319	1.710	1.890		10.90	103.00	7.37		875.
76	12	30	830	331.6	.489	.255	1.670	1.650		12.50	94.30	7.99		
76	12	31	830	327.0	.720	.433	1.890	2.000			96.30	7.78		853.
77	1	1	1230	322.3	.713	.437	2.160	1.960			95.70	8.03		839.
77	1	2	1200	351.3	.409	.187	2.150	1.820		10.10	90.90	7.78		795.
77	1	3	830	356.2	.684	.223	2.650	1.880		22.00	89.60	7.32		780.
77	1	4	830	366.0	.943	.452	2.330	2.000		13.40	96.50	8.03		856.
77	1	5	830	336.5	1.280	.548	2.490	2.000		31.60	99.20	8.32		884.
77	1	5	1630	313.0	.766	.479	1.920	1.850	1.830	11.50	100.00	7.87		867.
77	1	5	1631	313.0	.683	.525	3.970	.024	1.000	11.00	101.00	8.78		
77	1	6	830	229.8	1.180					30.00				
77	1	7	830	221.8	1.410					41.00				
77	1	8	830	201.6	.820					21.60				
77	1	9	1500	217.7	.561					11.50				
77	1	10	1430	225.8	.486					12.90				
77	1	11	1530	241.9	.610					13.20				
77	1	12	1600	241.9	.483					12.30				
77	1	13	1600	241.9	.510					8.80				
77	1	14	830	237.9	.950					33.90				
77	1	15	830	241.9	1.140					33.10				
77	1	16	1300	237.9	.754					12.80				
77	1	17	1630	190.5	.536					8.60				
77	1	18	1530	237.9	.876					13.00				

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT PENINSULA, OHIO

USGS NO. 04206400

SAMPLING DATE	TIME 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLOR RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMMO
77	1 19 1500	237.9	1.110							13.30				
77	1 19 1530	242.0	1.060							12.60				
77	1 19 1650	242.0	1.010							9.00				
77	1 20 1530	237.9	.883							16.80				
77	1 21 1500	241.9	1.470							25.60				
77	1 22 030	233.8	1.000							26.40				
77	1 23 1230	237.9	.568							9.60				
77	1 24 030	213.7	.411							5.10				
77	1 24 1600	246.2	.456							7.60				
77	1 25 1530	250.6	.922							5.00				
77	1 26 1530	254.9	.640							10.50				
77	1 27 1600	241.9	.465							14.40				
77	1 28 1200	237.9	.659							22.90				
77	1 31 1600	246.2	.500							3.70				
77	2 1 1600	241.9	1.450							14.10				
77	2 2 030	241.9	1.800							35.20				
77	2 2 1200	242.0	1.680	.454	4.310	.584		4.860		54.40	122.00	10.70		
77	2 2 1201	242.0	1.470	.734	1.340	1.420		4.390		48.90	118.00			
77	2 3 1600	246.0	.499							16.40				
77	2 4 1600	259.0	.509							10.80				
77	2 6 1430	217.0	.487							14.10				
77	2 7 1600	213.0	.423							12.10				
77	2 8 1630	234.0	.498							11.80				
77	2 9 030	255.0	1.090							30.90				
77	2 9 1600	255.0	.680							17.60				
77	2 10 030	281.0	1.500							51.40				
77	2 10 1630	281.6	.626							19.40				
77	2 11 030	381.0	.614							45.70				
77	2 11 1530	381.0	.351							36.10				
77	2 11 1800	381.0	.426							49.50				
77	2 12 030	563.0	.479							102.00				
77	2 12 1230	563.0	.326							56.10				
77	2 13 1000	775.0	.484							122.00				
77	2 13 1330	775.0	.324							95.10				
77	2 14 030	688.0	.241							49.70				
77	2 14 1600	688.0	.262							52.30				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJON RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT PENINSULA, OHIO

USGS NO. 04206400

SAMPLING DATE	TIME 24HR YR MO DY MRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	CPG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
77	2 15 030	618.0	.359							23.90				
77	2 15 1600	618.0	.323							23.60				
77	2 16 030	557.0	.362							23.00				
77	2 16 1630	557.0	.324							26.60				
77	2 17 030	528.0	.294							19.50				
77	2 17 1600	528.0	.265							19.70				
77	2 17 1601	528.0	.277							49.70				
77	2 18 030	488.0	.412							18.60				
77	2 18 1130	488.0	.410	.259	3.130	.028		.676		20.00	119.00			
77	2 18 1131	488.0	.409	.195	2.980	.167		.785		20.70	117.00	8.60		890.
77	2 18 1600	487.7	.398	.178	2.610	.498		1.030		28.10	114.00	8.41		893.
77	2 19 030	493.5	.310	.135	2.430	.738		1.050		20.40	110.00	8.37		842.
77	2 19 1500	505.0	.257	.119	2.680	.365		.729		39.80	109.00	9.88		818.
77	2 20 1600	493.5	.242	.108	2.540	.375		.841		92.70	109.00	9.46		809.
77	2 21 030	460.3	.281	.123	3.030	.726		1.080		21.70	131.00	8.58		1002.
77	2 21 1600	460.3	.263	.114	2.570	.711		1.050		34.70	124.00	8.48		969.
77	2 22 030	417.3	.429	.214	2.240	1.490		1.860		28.10	132.00	8.86		1047.
77	2 22 1600	427.7	.390	.178	2.330	.997		1.180		35.30	118.00	9.07		912.
77	2 23 030	624.5	.405	.142	2.800	.906		1.520		71.80	124.00	8.28		933.
77	2 23 1200	788.5	.328	.115	2.620	.184		.898			123.00	8.49		938.
77	2 23 1600	1021.0	.508	.082	2.590	.153		1.400		331.00	125.00	8.23		909.
77	2 24 000	2217.0	.928	.074	2.050	.016		1.950			98.10	6.18		
77	2 24 1130	2894.0	1.040	.072	2.100	.028		2.390			97.70	6.83		637.
77	2 24 1600	4759.0	2.350	.059	1.270	.323		5.040		2313.00	108.00	6.79		647.
77	2 25 030	2894.0	.634	.056	2.040	.067		1.440			94.50	6.56		
77	2 25 1600	2660.0	.502	.076	1.840	.268		1.490		325.00	99.90	6.75		591.
77	2 26 030	2379.0	.340	.094	1.740	.373		.850			106.00	7.68		568.
77	2 26 1400	2291.9	.306	.079	1.720	.303		.720		183.00	102.00	6.81		581.
77	2 27 1200	2217.0	.319	.082	1.680	.374		.840		168.00	99.90	6.46		505.
77	2 27 1700	2648.6	.359	.065	1.820	.218		1.020		167.00	85.20	7.26		527.
77	2 28 030	2490.0	.309	.073	1.800	.311		1.110		154.00	90.80	6.78		457.
77	2 28 1600	2434.0	.303	.054	1.870	.332		1.020			76.00	6.57		457.
77	3 1 030	2111.0	.243	.051	1.630	.515		.790		92.00	74.00	6.42		445.
77	3 1 1600	2859.5	.321	.056	1.550	.555		1.340		183.00	75.20	6.23		457.
77	3 2 030	1711.0	.351	.071	1.580	.578		1.340		87.80	89.20	6.12		498.
77	3 2 1600	1692.2	.269	.054	1.600	.500		1.180		94.00	91.20	6.13		533.

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT PENINSULA, OHIO

USGS NO. 04206400

SAMPLING DATE	TIME 2400	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	CNO. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMMO
YR MO DY	MRS.													
77	3	3	400	2434.6	.181					52.00				
77	3	3	830	2434.0	.197					46.40				
77	3	3	960	2434.0	.207	.062	1.450	.627	1.230	75.50	80.50	5.95		456.
77	3	3	901	2434.0	.215	.068	1.560	.531	1.203	52.60	91.70	6.50		458.
77	3	4	830	1263.0	.203	.091	2.200	.086	.900	59.30	72.70	7.48		439.
77	3	4	1600	1453.0	.326					78.30				
77	3	5	830	1221.5	.204					58.90				
77	3	5	1430	1305.5	.150					51.80				
77	3	6	1830	1068.0	.159					32.10				
77	3	7	830	1036.6	.159					35.80				
77	3	7	1600	1099.0	.172					32.40				
77	3	8	330	1036.6	.177					23.70				
77	3	8	1600	1221.5	.184					26.00				
77	3	9	830	1036.6	.193					25.50				
77	3	9	1630	1021.0	.198					38.40				
77	3	10	830	872.7	.270					29.70				
77	3	10	1600	909.3	.220					26.30				
77	3	11	830	802.1	.239					24.00				
77	3	12	830	701.3	.226					21.00				
77	3	12	1530	768.1	.214					19.90				
77	3	13	1130	2164.0	.438					338.00				
77	3	13	1700	1857.5	.626					295.00				
77	3	14	830	1711.0	.243					95.80				
77	3	14	1600	1571.0	.250					111.00				
77	3	15	830	1391.5	.241					83.70				
77	3	15	1600	1391.5	.288					73.00				
77	3	16	830	1417.6	.222					71.20				
77	3	16	1600	1525.0	.266	.058	1.080	.557	1.230	52.60	75.18	6.41		490.
77	3	16	1601	1525.0	.231	.082	1.480	.433	.634	65.70	78.78	5.37		477.
77	3	17	830	1305.5	.171					52.40				
77	3	18	830	3075.0	.898	.079	1.420	.198	1.670	876.00	70.80	5.57		485.
77	3	18	1330	4613.0	1.088	.083	1.310	.250	2.320	1593.00	72.90	5.46		461.
77	3	18	1600	4759.0	1.140	.084	1.310	.274	2.100	1282.00	73.50	5.41		465.
77	3	19	830	2668.0	.377					310.00				
77	3	19	1230	2625.8	.281	.078	1.350	.231	.214	131.00	73.30	5.84		486.
77	3	20	1100	2434.0	.471					236.30				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT PENINSULA, OHIO

USGS NO. 84206408

SAMPLING DATE	TIME	FLOW	TOTAL PHOS.	ORTHO PHOS.	NO-2	NH-3	ORG. NIT.	TOTAL KJEL	COD	SUSPEND SOLIDS	CHLORIDE	SIO2	IRON	COND 25C. UMHO
YR MO DY	MRS.	CFS	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
77	3	20	1700	2490.0	.281	.063	1.440	.210	.627	165.00	76.90	5.75		568.
77	3	21	830	2008.0	.208					131.00				
77	3	21	1530	1977.7	.182					83.70				
77	3	22	830	2217.0	.345					88.40				
77	3	22	1630	2603.0	.488					291.00				
77	3	23	830	2111.0	.160					64.70				
77	3	23	1645	2090.4	.168					57.30				
77	3	24	830	1907.0	.149					67.20				
77	3	24	1600	1711.0	.114					58.20				
77	3	25	830	1700.6	.149					41.30				
77	3	25	1600	1759.5	.220	.078	1.310	.306	.548	52.00	71.00	5.19		465.
77	3	26	830	1525.0	.115					45.50				
77	3	26	1500	1498.0	.105					33.38				
77	3	27	1800	1221.5	.092					32.10				
77	3	28	830	1711.0	.516	.089	1.120	.638	1.360	339.00	74.30	5.59		585.
77	3	28	1600	2546.0	.361					69.30				
77	3	29	830	1435.0	.167	.067	1.120	.357	.186	72.60	71.40	5.28		584.
77	3	29	1600	1462.0	.140	.055	1.090	.375	.243	41.80	70.50	4.97		526.
77	3	29	1601	1462.0	.132	.061	1.550	.038	.575	45.60	68.40	5.19		819.
77	3	29	1700	1263.0	.355					50.70				
77	3	30	830	1163.0	.184					51.60				
77	3	31	830	1005.9	.169					36.10				
77	3	31	1630	1021.0	.142					49.50				
77	4	2	1230	3685.0	1.030					1216.00				
77	4	2	1515	3650.3	.745					663.00				
77	4	3	1330	2706.4	.263					143.00				
77	4	3	1800	2434.0	.281					154.00				
77	4	4	830	1957.5	.217					116.00				
77	4	4	1600	2008.0	.221					87.10				
77	4	5	830	2546.0	.338					245.00				
77	4	5	1600	2380.0	.262					160.00				
77	4	6	830	2111.0	.185					146.00				
77	4	6	1600	2111.0	.278					92.90				
77	4	7	830	1759.5	.154					57.00				
77	4	7	1600	1664.0	.149					52.20				
77	4	8	830	1453.0	.142					43.40				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT PENINSULA, OHIO

USGS NO. 04206400

SAMPLING DATE YR MO DY	TIME HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COO MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
77	4	8	1500	1391.5						57.50				
77	4	9	900	1263.0						42.40				
77	4	11	830	872.7						34.20				
77	4	11	1600	983.4						41.20				
77	4	12	830	837.4						39.00				
77	4	13	830	816.2						27.70				
77	4	14	829	768.1						19.10				
77	4	14	830	768.1				1.503		23.30	69.80	4.10		589.
77	4	14	831	768.1				.480		12.80	68.40	4.80		598.
77	4	15	830	545.3						23.30				
77	4	16	1130	487.7						16.20				
77	4	17	1000	557.4						13.90				
77	4	18	830	487.7						15.80				
77	4	19	830	396.4						28.20				
77	4	20	830	308.5						16.20				
77	4	21	830	308.5						25.80				
77	4	22	830	241.9						25.20				
77	4	22	1700	486.9						28.30				
77	4	23	830	575.5						86.50				
77	4	23	1300	637.1						101.00				
77	4	23	1500	768.1						278.00				
77	4	24	1800	701.3						63.50				
77	4	25	830	668.5						38.90				
77	4	25	1600	882.1						59.00				
77	4	26	830	816.2						43.60				
77	4	26	1600	968.8						55.20				
77	4	27	830	872.7						35.40				
77	4	27	1830	872.7				.970		39.90	71.50	4.75		682.
77	4	27	1831	872.7				1.440		38.80	75.90	4.77		683.
77	4	27	1600	1021.0						54.00				
77	4	28	830	983.4						36.90				
77	4	28	1630	1060.0						36.30				
77	4	29	830	872.7						30.20				
77	4	29	1600	968.8						26.20				
77	4	30	830	837.4						29.90				
77	4	30	1400	844.5						30.80				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT PENINSULA, OHIO

USGS NO. 04206400

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
77 5 27 830	130.5	.862							19.70				
77 5 28 830	154.3	1.090							27.20				
77 5 29 1900	157.7	.369							11.40				
77 5 30 1900	138.5	.360							11.20				
77 5 31 830	147.5	.774							28.00				
77 6 1 830	294.6	.558							90.90				
77 6 1 1600	241.9	.353							22.50				
77 6 2 830	138.5	.462							17.90				
77 6 2 1700	183.1	.432							17.80				
77 6 3 830	138.5	.441							21.00				
77 6 4 830	157.7	.697							21.60				
77 6 5 1830	356.2	.742							47.00				
77 6 6 830	371.0	.604							28.60				
77 6 6 1600	371.0	.428							25.80				
77 6 7 830	221.8	.579							28.20				
77 6 7 2000	229.8	.465	.362	4.110	.226				8.20	106.00	7.98		
77 6 7 2001	229.8	.442	.316	4.630	.093		1.580		10.10	105.00	7.79		976.
77 6 8 830	138.5	.674							12.00				
77 6 9 830	486.9	1.100							62.70				
77 6 9 1600	575.5	1.410							191.00				
77 6 10 830	272.3	.403							16.00				
77 6 10 1600	272.3	.337							13.30				
77 6 11 830	213.7	.608							12.30				
77 6 12 1800	213.7	.531							12.20				
77 6 13 830	198.5	.684							7.60				
77 6 14 830	194.2	.984							14.90				
77 6 15 830	183.1	.874							10.90				
77 6 16 830	147.5	.815							14.20				
77 6 17 830	157.7	.862							15.20				
77 6 18 830	545.3	.795	.228	2.360	.144		2.290		512.00	92.40	6.58		763.
77 6 18 1130	516.5	.621							199.00				
77 6 19 1800	241.9	.296							15.70				
77 6 20 830	183.1	.467							12.30				
77 7 6 830	272.3	.483							12.90				
77 7 6 1330	114.3	.507	.373	2.550	.320		1.310		79.60	120.00	9.54		1020.
77 7 6 1530	299.2	.442	.299	2.350	.191		1.110		10.90	116.00	10.78		1087.

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT PENINSULA, OHIO

USGS NO. 04206400

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTH PHOS. MG/L	NO-2 NO-3 MG/L	NO-4 MG/L	AM- NH-4 MG/L	TOTAL NITRO MG/L	COD MG/L	SUSPENS SOLIDS MG/L	CHLOR NITR MG/L	SIO2 MG/L	IRON MG/L	CONC 25C UMNO
77 5 1 1900	781.3	.130							16.80				
77 5 2 830	637.1	.158							14.60				
77 5 2 1600	823.3	.640							48.20				
77 5 3 830	802.1	.357							6.40				
77 5 3 1600	802.1	.173							22.50				
77 5 3 1601	802.1	.155							28.30				
77 5 4 830	668.5	.308							23.80				
77 5 4 1600	1435.0	.622							366.00				
77 5 5 830	802.1	.724							40.20				
77 5 6 830	768.1	.292							24.50				
77 5 6 1600	754.4	.212							24.60				
77 5 7 830	668.5	.261							23.50				
77 5 7 1300	655.9	.214							23.20				
77 5 8 1900	487.7	.192							23.00				
77 5 9 830	516.5	.450							16.20				
77 5 10 830	460.3	.442							16.40				
77 5 10 1600	487.7	.438							12.60				
77 5 11 830	380.8	.467							14.90				
77 5 12 830	380.8	.367							11.20				
77 5 12 1030	331.6	.319	.158	2.350	.078		1.120		14.50	83.60	5.02		819.
77 5 12 1031	331.6	.316	.173	3.110	.065		1.490		18.10	85.50	4.24		881.
77 5 13 830	331.6	.398							11.40				
77 5 14 830	317.7	.547							12.90				
77 5 15 800	241.9	.389							12.20				
77 5 16 830	246.2	.402							15.10				
77 5 17 830	233.8	.750							15.10				
77 5 18 830	221.8	.864							12.60				
77 5 19 830	201.6	1.250							22.60				
77 5 20 830	221.8	1.050							23.20				
77 5 23 830	183.1	.682							21.80				
77 5 24 830	209.7	1.200							31.80				
77 5 24 1530	229.8	1.080	.605	3.690	.092		2.210		17.30	153.00	6.46		1441.
77 5 24 1531	229.8	1.066	.749	4.700					14.10	158.00	7.46		1484.
77 5 25 830	241.9	.821							55.70				
77 5 25 1600	276.6	.705							19.20				
77 5 26 830	138.5	.762							16.70				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT PENINSULA, OHIO

USGS NO. 04206400

SAMPLING DATE	TIME	FLOW	TOTAL PHOS.	ORTHOPHOS.	NO-2	NH-3	ORG. NIT.	TOTAL KJELD	COD	SUSPEND SOLIDS	CHLORIDE	SIO2	IRON	COND 25C. UNMO
YR MO DY	HRS.	CFS	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
77	5	27	830	130.5	.862					19.70				
77	5	28	830	154.3	1.090					27.20				
77	5	29	1900	157.7	.369					11.40				
77	5	30	1900	130.5	.360					11.20				
77	5	31	830	147.5	.774					28.00				
77	6	1	830	294.6	.558					90.90				
77	6	1	1600	241.9	.353					22.50				
77	6	2	830	130.5	.462					17.90				
77	6	2	1700	183.1	.332					17.80				
77	6	3	830	130.5	.441					21.00				
77	6	4	830	157.7	.697					21.60				
77	6	5	1830	356.2	.742					47.00				
77	6	6	830	371.0	.604					28.60				
77	6	6	1600	371.0	.428					25.80				
77	6	7	830	221.8	.579					20.20				
77	6	7	2000	229.8	.465	.362	4.110	.226		8.20	106.00	7.98		
77	6	7	2001	229.8	.442	.316	4.630	.093	1.580	10.10	105.00	7.79		970.
77	6	8	830	130.5	.674					12.00				
77	6	9	830	486.9	1.100					62.70				
77	6	9	1600	575.5	1.410					191.00				
77	6	10	830	272.3	.403					16.00				
77	6	10	1600	272.3	.337					13.30				
77	6	11	830	213.7	.608					12.30				
77	6	12	1800	213.7	.531					12.20				
77	6	13	830	190.5	.684					7.60				
77	6	14	830	194.2	.984					14.90				
77	6	15	830	183.1	.878					10.90				
77	6	16	830	147.5	.815					14.20				
77	6	17	830	157.7	.862					15.20				
77	6	18	830	545.3	.795	.228	2.360	.144	2.290	512.00	92.40	6.58		763.
77	6	18	1130	516.5	.621					199.00				
77	6	19	1800	241.9	.296					15.70				
77	6	20	830	183.1	.467					12.30				
77	7	6	830	272.3	.483					12.90				
77	7	6	1330	118.3	.507	.375	2.550	.322	1.310	79.60	120.00	9.54		1020.
77	7	6	1530	299.2	.442	.299	2.350	.191	1.110	10.90	116.00	10.78		1007.

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT PENINSULA, OHIO

USGS NO. 04206400

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
77 7 6 1531	299.2	.455	.338	2.610	.031		.840		13.10	122.00	12.80		1007.
77 7 7 830	233.8	.653							6.50				
77 7 8 830	422.5	.574							188.00				
77 7 9 830	254.9	.343							14.80				
77 7 10 1900	209.7	.341							6.40				
77 7 11 830	190.5	.413							3.30				
77 7 12 830	308.5	.403							82.80				
77 7 13 830	241.9	.495							29.00				
77 7 14 830	209.7	.457							4.50				
77 7 15 830	201.6	.408							.40				
77 7 16 830	130.5	.458							3.20				
77 7 18 956	499.2	.365							112.00				
77 7 18 1600	356.2	.261							28.60				
77 7 19 830	263.6	.367							12.10				
77 7 19 1700	740.8	.705							359.00				
77 7 20 830	317.7	.325							27.10				
77 7 21 830	294.6	.476							11.20				
77 7 22 830	356.2	.412							23.40				
77 7 23 830	254.9	.408							10.60				
77 7 24 2000	225.8	.424							9.40				
77 7 25 830	246.2	.527							33.80				
77 7 25 1400	487.7	.802							313.00				
77 7 25 1530	533.8	.785							436.00				
77 7 26 830	371.0	.461							23.40				
77 7 27 830	276.6	.470							9.40				
77 7 28 830	201.6	.620							8.10				
77 7 29 830	183.1	.718							7.40				
77 7 30 830	331.6	.808							39.30				
77 8 1 1105	168.2	.708							10.60				
77 8 2 900	171.9	.710							14.00				
77 8 2 1730	190.5	.591	.452	4.250	.038		.792		34.40	170.00	10.78		1484.
77 8 2 1731	190.5	.594	.230	2.270	.010		.740		8.80	71.00			1884.
77 8 4 1230	150.9	.748							11.40				
77 8 5 1700	308.5	.623							15.00				
77 8 6 1115	121.4	.517							10.10				
77 8 12 830	823.3	.621							367.00				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT PENINSULA, OHIO

USGS NO. 84206400

SAMPLING DATE	TIME	FLOW	TOTAL PHOS.	ORTHO PHOS.	NO-2	NH-3	CHG.	TOTAL	COD	SUSPEND	CHLO	SIO2	IRON	COND
YR MO DY	2400 HRS.	CFS	MG/L	MG/L	MG/L	MG/L	MG/L	KJELD	MG/L	SOLIDS	RIDE	MG/L	MG/L	25C. UNNO
77	8	13	830	391.2	.311					54.60				
77	8	13	1200	361.1	.267					42.60				
77	8	14	1900	351.3	.310					50.20				
77	8	15	830	356.2	.326					31.40				
77	8	16	830	331.6	.399					29.30				
77	8	16	1600	581.5	.387	.502	5.340	.010	1.100	37.80	164.00			672.
77	8	16	1601	581.5	.385	.155	.960	.092	.943	31.60	112.00	8.92		674.
77	8	17	830	1036.6	1.380					560.00				
77	8	18	830	575.5	.368					41.30				
77	8	19	830	516.5	.351					27.80				
77	8	20	830	516.5	.389					20.80				
77	8	21	1800	545.3	.548					244.00				
77	8	22	830	872.7	.608					229.00				
77	8	22	1700	837.4	.336					66.90				
77	8	23	830	545.3	.367					45.10				
77	8	24	830	460.3	.392					36.60				
77	8	25	830	331.6	.434					22.80				
77	8	26	830	331.6	.490					18.50				
77	8	27	830	241.9	.553					16.20				
77	8	28	1900	241.9	.548					12.20				
77	8	29	830	246.2	.608					10.00				
77	8	29	1515	263.6	.539					5.60				
77	8	29	1516	263.6	.506					8.20				
77	8	30	830	213.7	.749					10.80				
77	8	31	830	183.1	.597					8.20				
77	9	1	830	138.5	.554					7.30				
77	9	2	830	205.6	.607					9.30				
77	9	2	1600	241.9	.445					17.20				
77	9	3	830	272.3	.459					16.10				
77	9	5	830	138.5	.785					11.10				
77	9	6	1600	201.6	.837					7.20				
77	9	7	830	175.6	.875					6.70				
77	9	8	830	138.5	.719					5.60				
77	9	9	830	175.6	.706					5.90				
77	9	10	830	197.9	.711					6.30				
77	9	11	1800	198.5	.666					4.80				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT PENINSULA, OHIO

USGS NO. 04206400

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	GRG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
77 9 12 830	138.5	.720							5.20				
77 9 13 830	229.8	.957							8.60				
77 9 13 1600	322.3	.914							32.20				
77 9 14 830	1263.0	.989	.072	.940	.164		3.520		565.00	57.80	6.12		470.
77 9 14 831	1263.0	.951							556.00				
77 9 14 832	1263.0	.976	.153	.980	.103		2.670		609.00	73.90	7.44		
77 9 15 830	396.4	.346							39.30				
77 9 15 1600	386.0	.297	.197	2.090	.068		.681		29.30	1.50	7.96		
77 9 16 830	1561.8	.977	.179	.960	.252		2.900		937.00	89.10	7.92		
77 9 16 1600	872.7	.503	.211	1.710	.129		1.160		173.00	80.50	7.69		
77 9 17 830	768.1	.376	.212	1.490	.084		.804		121.00	78.70	8.14		
77 9 17 1500	802.1	.308							75.90				
77 9 18 830	983.4	.501							248.00				
77 9 19 830	668.5	.344							55.10				
77 9 19 1600	637.1	.336							41.50				
77 9 20 830	545.3	.333							77.80				
77 9 21 830	516.5	.254							28.90				
77 9 22 830	460.3	.294							21.90				
77 9 23 830	388.8	.339							19.20				
77 9 24 830	391.2	.306							15.60				
77 9 26 830	380.8	.370							21.60				
77 9 27 830	331.6	.406							17.80				
77 9 27 930	366.0	.390							13.70				
77 9 27 931	366.0	.382							13.10				
77 9 28 830	371.0	.332							12.20				
77 9 29 830	322.3	.335							13.70				
77 9 30 830	308.5	.332							9.30				
77 10 1 830	241.9	.361							9.20				
77 10 1 1500	563.4	.444							48.20				
77 10 2 1000	331.6	.260							11.00				
77 10 3 830	331.6	.349							9.60				
77 10 4 830	427.7	.471							10.30				
77 10 5 830	401.6	.396							12.50				
77 10 6 830	388.8	.365							13.00				
77 10 7 830	196.4	.261							11.40				
77 10 8 830	528.0	.327							26.00				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT PENINSULA, OHIO

USGS NO. 04206400

SAMPLING DATE	TIME 2400	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
YR	MO	DY	MRS.											
77	10	9	1000	655.9	.305					85.00				
77	10	10	830	516.5	.258					31.70				
77	10	10	1500	522.3	.255					26.20				
77	10	10	1600	522.3	.258					17.40				
77	10	11	830	468.3	.311					17.90				
77	10	12	830	388.8	.369					14.70				
77	10	13	830	422.5	.415					12.80				
77	10	17	830	388.8	.258					17.00				
77	10	18	830	391.2	.416					17.00				
77	10	19	830	356.2	.530					12.80				
77	10	20	830	356.2	.336					17.40				
77	10	21	830	351.3	.326					11.60				
77	10	22	830	241.9	.344					10.70				
77	10	22	1245	768.1	.361					8.40				
77	10	22	1246	768.1	.353									
77	10	23	1600	183.1	.403									
77	10	24	830	138.5	.423									
77	10	25	830	138.5	.785									
77	10	26	830	308.5	.623									
77	10	27	830	331.6	.591									
77	10	28	830	331.6	.429									
77	10	28	831	221.8	.584									
77	10	30	1000	190.5	.431									
77	10	31	1600	229.8	.399									
77	11	1	830	281.6	.631									
77	11	2	830	322.3	.489									
77	11	3	830	331.6	.388									
77	11	4	830	346.4	.545									
77	11	5	830	341.4	.347									
77	11	7	830	2217.0	3.340	.980	2.140							
77	11	7	1500	872.7	.683	.865	.370	.035	1.500	276.80	91.00	7.10		678.
77	11	8	830	516.5	.400					37.50	66.80	7.67		624.
77	11	9	1530	468.3	.275					18.80				
77	11	10	1600	1139.5	1.270	.428	2.580	.085	2.460	264.80	65.60	7.79		648.
77	11	11	830	637.1	.305					45.20				
77	11	11	1600	618.2	.210					38.70				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT PENINSULA, OHIO

USGS NO. 04206400

SAMPLING DATE	TIME 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
77 11 12	830	487.7	.234							29.60				
77 11 14	830	587.5	.260							30.60				
77 11 15	830	618.2	.330							23.60				
77 11 16	830	802.1	.266							52.70				
77 11 17	830	2080.1	.644	.094	.750	.059		1.670		360.00	68.40	6.73		582.
77 11 18	830	2614.4	.350							116.00				
77 11 19	830	1263.0	.224							78.40				
77 11 20	900	1180.0	.244							73.60				
77 11 21	1600	1480.0	.334							93.00				
77 11 22	830	1139.5	.234							50.00				
77 11 23	830	872.7	.228							43.70				
77 11 25	830	701.3	.167							35.10				
77 11 26	830	668.5	.207							29.60				
77 11 27	900	499.2	.271							23.30				
77 11 28	1600	487.7	.281							20.40				
77 11 29	830	460.3	.334							33.70				
77 11 29	1600	487.7	.306							23.60				
77 11 30	830	443.9	.271							20.60				
77 11 30	1130	781.7	.647							188.00				
77 11 30	1600	1021.0	.662							170.00				

FURNACE RUN
NEAR
EVERETT, OHIO

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : FURNACE RUN

LOCATION W/CODE : NEAR EVERETT, OHIO

USGS NO. 04206370

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	AM-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPENS SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
77 2 2 1430	5.0	.019	.042	.970	.135		.163		4.00	150.00	10.20		
77 2 2 1431	5.0	.037	.025	1.070	.017		.059		1.80	145.00			
77 2 3 950	5.0	.039							3.50				
77 2 11 935	5.0	.048							10.90				
77 2 12 1005	50.0	.086							69.90				
77 2 12 1220	50.0	.100							114.00				
77 2 12 1350	50.0	.099							102.00				
77 2 12 1525	50.0	.102							115.00				
77 2 13 1240	100.0	.131							130.00				
77 2 13 1410	100.0	.129							173.00				
77 2 13 1555	100.0	.145							55.20				
77 2 14 1005	50.0	.065							93.90				
77 2 14 1330	50.0	.084							1.60				
77 2 15 1005	30.0	.043							161.00				
77 2 15 1615	30.0	.058							39.10				
77 2 16 1020	25.0	.042							19.50				
77 2 16 1215	25.0	.045							34.80				
77 2 16 1640	25.0	.051							45.80				
77 2 17 050	20.0	.033							14.40				
77 2 17 1025	20.0	.032							15.50				
77 2 17 1400	20.0	.043	.015	1.130	.042		.127		36.20	199.00			
77 2 17 1400	20.0	.033	.021	1.210	.070		.420		33.10	195.00	9.98		1793.
77 7 17 1610	20.0	.042							41.50				
77 2 18 1045	20.0	.025	.018	1.230	.027		.640		17.60	102.00	7.04		1637.
77 2 21 1215	15.0	.074	.021	1.000	.035		.360		50.00	162.00	7.36		1434.
77 2 24 1000	433.0	1.100	.010	1.510	.025		2.600		2195.00	92.30	6.26		964.
77 2 24 1215	433.0	2.590	.013	1.180	.037		5.830		4515.00	89.20	6.00		963.
77 2 24 1315	433.0	1.980	.010	1.460	.373		3.500		3970.00	84.80	5.30		919.
77 2 24 1620	433.0	1.430		1.470	.055		2.670		2592.00	78.70	5.71		478.
77 2 25 040	121.0	.316	.013	1.500	.050		.810		304.00	100.00	6.14		634.
77 2 26 900	73.0	.070	.022	1.390	.086		.460			110.00	8.23		707.
77 2 27 025	69.0	.101	.014	1.290	.051		.530		110.00	118.00	7.55		701.
77 2 28 1040	46.3	.062	.020	1.210	.075		.480		56.60	115.00	7.01		793.
77 3 1 1040	40.6	.039	.014	1.150	.055		.450			117.00	6.50		837.
77 3 2 1000	25.8	.023	.016	1.140	.054		.500		21.00	113.00	7.00		860.
77 3 2 1600	30.0	.102	.024	1.130	.081		.310		63.40	125.00	7.94		903. 151

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : FURNACE RUN

LOCATION W/CODE : NEAR EVERETT, OHIO

USGS NO. 84206378

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL NIT. MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
77 3 3 900	18.5	.047							11.90				
77 3 7 910	25.8	.056							22.40				
77 3 10 950	19.8	.049							17.80				
77 3 13 1310	64.0								212.00				
77 3 14 940	57.1	.107							90.10				
77 3 15 1010	36.0	.062							47.10				
77 3 16 1015	27.4	.051							31.20				
77 3 16 1200	27.0	.045	.010	.730	.115		.300		25.90	110.00	7.67		805.
77 3 16 1201	27.0	.040	.012	.750	.103		.569		34.30	96.50	8.15		793.
77 3 17 1045	21.3	.028							11.60				
77 3 18 1005	314.0	.918		.750	.100		3.020		1755.00	91.70	5.03		
77 3 19 900	76.3	.111	.014	.930	.049		1.570		92.00	79.50	7.10		
77 3 21 900	59.9	.070							98.40				
77 3 22 955	136.0	.460	.014	.810	.031		2.280			77.30	7.57		536.
77 3 23 1005	68.0	.060							41.00				
77 3 24 845	63.0	.049							29.40				
77 3 28 1020	112.7	.225	.040	.600	.106		1.270			87.40	6.24		
77 3 29 1100	74.7	.115							56.90				
77 3 29 1615	64.0	.069	.022	.480	.208		.861		44.70	82.20	6.64		623.
77 3 29 1616	64.0	.050	.032	.940	.019		.505		49.00	84.40	6.99		624.
77 3 31 1025	36.0	.068							11.60				
77 4 2 845	221.0	2.250	.010	.320	.222		6.250		2304.80	76.70	5.92		573.
77 4 3 1300	69.7	.100							116.00				
77 4 4 1035	44.0	.050							47.00				
77 4 5 1030	90.0	.133							126.00				
77 4 7 1050	31.3	.042							83.60				
77 4 11 1025	18.5	.010							6.10				
77 4 13 1530	14.5			.060	.013		.412		19.70	78.50	6.01		673.
77 4 13 1531	14.5	.012		.030	.047				1.50	75.80	6.09		679.
77 4 14 1010	14.0	.010							50.40				
77 4 21 1000	10.0	.010							2.50				
77 4 23 1030	64.6	.133							175.00				
77 4 23 1515	70.0	.934	.010	.270	.091		1.983		2076.00	84.90	7.44		674.
77 4 25 1005	37.1	.058							48.90				
77 4 26 1005	46.3	.053							31.10				
77 4 27 1130	31.3	.026		.100	.048		.163		68.20	78.50	5.66		657.

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : FURNACE RUN

LOCATION W/CODE : NEAR EVERETT, OHIO

USGS NO. 04206370

SAMPLING DATE	TIME 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NTT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	CONO 25C. UMHO
77	4 27 1131	31.3	.020		.650	.046				8.60	73.70	4.96		663.
77	4 28 910	22.8	.023							3.40				
77	5 2 1035	24.3	.023							17.60				
77	5 5 1235	41.7	.042							19.90				
77	5 9 1000	18.5	.020							1.00				
77	5 11 1130	10.4			.690	.047				.60	73.10	4.89		716.
77	5 11 1131	10.4	.016		1.240	.090				2.50	69.40	4.81		788.
77	5 13 845	10.8	.010							2.90				
77	5 16 1040	5.0	.010							3.20				
77	5 20 1030	6.3	.010							2.50				
77	5 23 1005	5.4	.010							2.10				
77	5 24 1130	6.3	.026		2.340	.119		.330		19.50	70.50	5.38		778.
77	5 24 1131	6.3	.020		2.150	.345		.644		29.10	92.30	6.40		786.
77	5 27 920	5.0								4.90				
77	5 31 945	4.4	.015							3.20				
77	6 3 1000	5.8	.013							2.10				
77	6 7 1035	6.5	.010							3.60				
77	6 7 1015	5.2	.015		1.010	.166		.201		2.80	98.60	5.60		891.
77	6 7 1016	5.2		.023	.530	.060		.020		3.10	97.80	5.17		881.
77	6 9 1025	47.4	.313							283.00				
77	6 10 1015	8.3	.021							7.90				
77	6 13 1110	5.2								4.40				
77	6 17 855	4.6								6.40				
77	6 18 1005	44.0	.319		1.318	.049		1.270		278.00	77.40	6.39		599.
77	6 19 1010	9.7	.035							16.50				
77	6 20 1215	6.8	.100							7.00				
77	6 24 1100	4.9	.013							3.10				
77	6 25 845	5.9	.015							11.30				
77	6 27 1000	4.6	.014							93.50				
77	6 29 825	61.3	.394							482.00				
77	6 30 1720	12.8	.164							261.00				
77	7 1 710	51.6	.230							201.00				
77	7 4 905	10.0	.086							111.00				
77	7 5 1055	8.6	.052							10.00				
77	7 6 1615	6.3	.034							3.90				684.
77	7 6 1616	6.3	.018	.021	.070	.039		.450		9.10	90.80	6.56		778. 153

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : FURNACE RUN

LOCATION W/CODE : NEAR EVERETT, OHIO

USGS NO. 84206370

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO AIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMMO
77 7 7 1145	5.4								87.00				
77 7 11 1305	5.2								4.10				
77 7 14 1225	5.0								3.60				
77 7 18 1120	5.0	.026							23.60				
77 7 19 1310	45.1	.659	.021	.290	.062		2.020		1273.00	78.50	6.04		679.
77 7 19 1435	91.7	1.730	.126	.400	.181		4.690		2409.00	74.00	8.82		590.
77 7 19 1436	91.7	1.740	.143	.450	.168		4.410		2430.00	73.70	9.70		596.
77 7 20 1048	9.4	.072							40.90				
77 7 21 1105	6.1	.017							15.20				
77 7 22 925	10.8	.087	.077	.860	.014				49.50	65.60			
77 7 25 1230	74.7	.564					1.550		608.80		7.48		499.
77 7 28 1025	5.7	.035							17.30				
77 7 30 955	5.0	.010							8.60				
77 8 1 1020	4.1	.010							8.60				
77 8 2 1745	4.7				.031		.222		8.20	103.00	6.82		873.
77 8 2 1746	4.7	.010	.010	.130	.016		.450		5.80	66.30			926.
77 8 16 1645	8.6	.024	1.130	2.600	.010		.140		9.50	103.00			687.
77 8 16 1646	8.6	.025	.020	.100	.070		1.010		4.50	66.90	7.15		690.
77 8 22 015	34.1	.117							66.70				
77 8 23 1730	9.7	.044							6.20				
77 8 25 1120	5.0	.023							6.40				
77 8 29 055	5.4	.010							3.80				
77 8 29 1400	5.2	.010							2.60				
77 8 29 1401	5.2	.022							1.90				
77 9 2 1025	15.5	.120							112.00				
77 9 5 1005	5.0	.039							10.40				
77 9 8 1025	4.3	.023											
77 9 13 1150	7.0	.014							14.00				
77 9 14 900	36.0	.230	.070	.590	.023		9.160		110.00	69.80	7.25		575.
77 9 14 901	36.0	.182	.150	1.030	.065		.883		130.00	76.30	8.39		587.
77 9 14 1150	19.0	.139							88.20				
77 9 15 1030	8.6	.046							8.40				
77 9 16 950	93.4	.328	.184	1.210	.073		2.190		347.00	74.70	7.94		437.
77 9 17 945	44.0	.127	.195	1.280	.093		.663		94.50	77.50	8.17		542.
77 9 20 025	13.2	.074							29.60				
77 9 22 930	8.9	.032							8.00				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : FURNACE RUN

LOCATION W/CODE : NEAR EVERETT, OHIO

USGS NO. 04206370

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
77 9 27 1000	5.9	.010							5.70				
77 9 27 1001	5.9								4.00				
77 9 27 1620	6.1	.010							5.30				
77 9 30 910	5.9								1.40				
77 10 3 1000	10.4	.023							12.80				
77 10 7 1015	5.9								8.90				
77 10 9 1345	25.0	.086							40.30				
77 10 10 1125	10.8	.036							8.10				
77 10 10 1630	9.4	.027							6.40				
77 10 10 1631	9.4	.036							7.00				
77 10 13 1140	6.8	.023							7.90				
77 10 17 1105	12.4	.033							8.30				
77 10 20 1015	5.0	.017							7.60				
77 10 22 1330	5.4	.019							19.80				
77 10 22 1331	5.4	.021							24.10				
77 10 24 1050	5.2	.010							8.60				
77 10 28 1610	5.2	.013							6.60				
77 10 31 1030	5.2	.011							6.50				
77 11 3 1650	5.2	.082							97.80				
77 11 4 1630	12.4	.034							15.90				
77 11 7 955	106.9	.506	.073	.380	.089		1.640		486.00	42.90	5.69		444.
77 11 8 1420	15.5	.069							20.50				
77 11 9 1500	10.8	.055							9.30				
77 11 9 1500	10.8	.050							6.50				
77 11 10 915	31.3	.156							227.00				
77 11 14 1155	17.5	.075							16.50				
77 11 16 020	37.1	.086							49.80				
77 11 17 1025	97.1	.169							167.00				
77 11 18 910	33.2	.066							31.50				
77 11 20 040	8.3	.047							23.40				
77 11 23 1020	13.2	.041							10.40				
77 11 29 1600	21.3	.040							11.00				

YELLOW CREEK
NEAR
BOTZUM, OHIO

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAMOGA RIVER

STREAM : YELLOW CREEK

LOCATION W/CODE : NEAR BOTZUM, OHIO

USGS NO. 04266220

SAMPLING DATE	TIME 2400	FLOW CFS	TOTAL PHOS. MG/L	ORTHOPHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPENDED SOLIDS MG/L	CHLORIDE MG/L	S102 MG/L	IRON MG/L	COND 25C. UMHO
YR	MO	DAY	HRS.											
77	2	2	1400	10.0	.034	.027	.730	.131	.654	8.80	79.30	11.20		
77	2	2	1401	10.0	.045	.017	.840	.014	.081	7.50	75.90			
77	2	3	935	10.0	.032					5.00				
77	2	7	1020	10.0	.033					6.30				
77	2	11	915	10.0	.033					14.10				
77	2	12	955	50.0	.076					19.40				
77	2	12	1210	50.0	.072					29.30				
77	2	12	1340	50.0	.064					27.20				
77	2	12	1515	50.0	.069					30.50				
77	2	13	1230	100.0	.121					86.60				
77	2	13	1400	100.0	.112					68.10				
77	2	13	1535	100.0	.121					82.50				
77	2	14	955	70.0	.074					36.50				
77	2	14	1310	70.0	.112					65.50				
77	2	15	950	50.0	.047					10.80				
77	2	15	1555	50.0	.054					18.40				
77	2	16	1005	100.0	.035					8.20				
77	2	16	1205	100.0	.039					6.60				
77	2	16	1625	100.0	.046					12.70				
77	2	17	850	150.0	.033					6.20				
77	2	17	1015	150.0	.035					6.40				
77	2	17	1430	150.0	.041	.014	1.000	.017	.242	12.70	119.00			
77	2	17	1431	150.0	.033	.019	1.140	.040	.350	31.00	112.00	9.00		941.
77	2	17	1555	150.0	.040					11.10				
77	2	18	1030	50.0	.020	.017	1.180	.044	.480	32.10	102.00	8.16		863.
77	2	21	1200	30.0	.033	.013	.760	.026	.420		101.00	9.04		508.
77	2	24	2145	558.0	.724	.015	1.460	.027	3.450		80.90	5.92		815.
77	2	24	2359	558.0	1.940	.015	1.160	.031	5.120	2786.00	83.10	6.08		548.
77	2	25	105	286.0	1.580	.013	1.410	.028	3.090	2186.00	80.30	5.65		513.
77	2	25	410	286.0	1.170		1.470	.033	2.260	1574.00	80.30	5.77		494.
77	2	25	830	286.0	.310		1.720	.021	.840		68.80	5.83		421.
77	2	26	850	122.1	.105	.010	1.530	.043	.520		73.40	7.49		447.
77	2	27	815	90.0	.072	.010	1.330	.072	.550	53.90	78.30	7.35		522.
77	2	28	1025	66.5	.049	.010	1.240	.108	.540	215.00	73.60	7.14		516.
77	3	1	1025	53.5	.054	.018	1.160	.136	.550		71.30	9.08		536.
77	3	2	925	38.0	.039	.015	1.260	.093	.560		82.70	7.22		563.

STREAM : YELLOW CREEK

LOCATION W/CODE : NEAR BOTZUM, OHIO

USGS NO. 04206220

SAMPLING TIME			FLOW	TOTAL	ORTH	NO-2	NH-3	ORG.	TOTAL	COD	SUSPEND	CHLO	SIG2	IRON	COND
DATE	2400		CFS	PHOS.	PHOS.	NO-3		NIT.	KJELD		SOLIDS	RIDE			25C.
YR	MO	DAY	HRS.	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UMMO
77	3	2	1700	38.0	.660										
77	3	3	850	31.2	.051	.015	1.090	.065	.403		24.70	73.50	9.71		562.
77	3	7	900	34.4	.045						12.53				
77	3	10	940	27.3	.030						12.10				
77	3	13	1255	118.0	.222						10.50				
77	3	14	925	96.0	.091						222.00				
77	3	15	1005	62.6	.060						54.30				
77	3	16	1005	47.0	.055						10.10				
77	3	16	1245	43.7	.046	.010	.640	.132	.483		21.40				
77	3	16	1246	43.7	.044	.010	.690	.056	.412		16.40	72.80	7.68		560.
77	3	17	1035	34.4	.061						20.40	63.60	7.58		555.
77	3	18	955	489.6	.530	.018	.940	.066	2.510		14.30				
77	3	19	840	216.4	.133	.014	.910	.045	.906		753.00	70.70	5.86		
77	3	21	850	94.3	.059							51.80	7.10		398.
77	3	22	945	192.7	.223	.017	.800	.093	1.910		28.10				
77	3	23	950	125.2	.072						310.00	64.90	6.89		
77	3	24	830	98.0	.054	.014	.780	.031	2.580		38.10				
77	3	28	1010	122.1	.148	.017	.580	.059	1.313			58.30	7.80		483.
77	3	29	1050	90.0	.061							74.80	6.38		562.
77	3	29	1645	82.0	.049		.470	.135	.973		32.10				
77	3	29	1646	82.0	.049	.020	.580		.586		23.60	64.30	7.79		514.
77	3	31	1015	47.0	.033						22.80	62.60	7.64		519.
77	4	2	835	286.7	1.110	.022	.730	.010	4.230		7.60				
77	4	3	1250	254.4	.184	.019	.770		.912		1768.00	54.40	6.00		522.
77	4	4	1025	114.3	.086						130.00	41.60	6.53		382.
77	4	5	1020	190.1	.108						57.00				
77	4	7	1040	69.1	.042						71.00				
77	4	11	1010	41.5	.025						9.90				
77	4	13	1545	32.0	.018	.018	.130	.046	.540		1.80				
77	4	13	1546	32.0	.021	.012	.150	.036	.130		2.20	52.00	6.19		511.
77	4	14	1000	34.4	.023						5.90	50.30	8.11		526.
77	4	18	950	25.8	.013						5.80				
77	4	21	950	21.3	.032						2.10				
77	4	23	1020	83.2	.093	.015	.330	.068	.780		4.40				
77	4	23	1505	366.3	1.870	.077	.260	.114	6.450		71.70	75.40	6.67		634.
77	4	25	955	79.4	.167						3945.00	59.70	7.13		551.
											44.40				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : YELLOW CREEK

LOCATION W/CODE : NEAR ROTZUM, OHIO

USGS NO. 04206220

SAMPLING DATE	TIME 2400	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	S102 MG/L	IRON MG/L	COND 25C. UMHO
YR MO DY	HRS.													
77	4	26	955	67.8	.049					11.10				
77	4	27	1200	44.8	.035	.010	.160	.067	.440	5.20	53.50	6.31		540.
77	4	27	1201	44.8	.029		.650	.158	.520	6.00	62.30	5.78		542.
77	4	28	900	40.4	.032					2.80				
77	5	2	1025	41.5	.031					11.20				
77	5	5	1225	83.2	.048					23.40				
77	5	9	950	25.8	.023					2.30				
77	5	11	1100	21.3	.021		.800	.073	.490	2.60	65.20	5.37		593.
77	5	11	1101	21.3	.023		2.650	.090	.390	2.50	59.90	5.25		591.
77	5	13	830	19.9	.023					6.90				
77	5	16	1030	15.1	.020					3.40				
77	5	20	1020	13.7	.022					5.00				
77	5	23	950	11.5	.024					6.50				
77	5	24	1100	11.8	.020		1.940	.093	.070	7.00	56.40	6.79		639.
77	5	24	1101	11.8	.033		1.780	.259	3.260	9.10	82.10	6.62		649.
77	5	27	910	10.7	.024					4.80				
77	5	31	935	10.0	.038					7.90				
77	6	3	950	10.0	.020					4.10				
77	6	7	1025	12.2	.040					8.20				
77	6	7	1800	10.3	.027		1.970	.344	.046	7.30	86.60	6.78		655.
77	6	7	1801	10.3	.024	.035	.500	.046	.340	5.80	55.60	10.90		651.
77	6	9	1015	29.0	.348					328.00				
77	6	10	1005	16.9	.057					21.80				
77	6	13	1055	10.7	.020					6.70				
77	6	17	840	9.2	.030					12.40				
77	6	18	955	91.5	.249					199.00				
77	6	19	1800	19.3	.082					45.00				
77	6	20	1200	14.1	.039					13.00				
77	6	24	1050	10.0	.052					19.00				
77	6	25	835	29.6	.139					126.00				
77	6	27	950	9.2	.039					4.00				
77	6	29	810	115.9	.410					431.00				
77	6	30	1710	17.5	.079					33.00				
77	7	1	700	34.0	.268					253.00				
77	7	4	855	24.3	.226					278.00				
77	7	5	1045	22.8	.096					53.30				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOK RIVER BASIN : CUYAHOGA RIVER

STREAM : YELLOW CREEK

LOCATION W/CODE : NEAR SOTZUM, OHIO

USGS NO. 04206220

SAMPLING DATE YR MO DY	TIME 2400 HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLOR RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
77	7	6	1630	13.4	.042	.021				34.90				664.
77	7	6	1631	13.4	.041	.019	.230	.010	.092	13.80	60.50	10.60		599.
77	7	7	1135	11.5	.114					8.00				
77	7	11	1235	13.7	.020					3.10				
77	7	14	1210	10.0	.010					2.30				
77	7	18	1105	38.2	.179					136.00				
77	7	19	1300	17.5	.065					235.00				
77	7	19	1500	31.2	.549	.037	.550	.096	1.810	722.00	48.00	8.99		456.
77	7	19	1501	31.2	.542	.014	.510	.012	1.670	722.00	47.10	6.91		448.
77	7	20	1030	16.9	.107					42.80				
77	7	21	1055	13.7	.047					30.50				
77	7	22	915	12.6	.058					24.20				
77	7	25	1220	35.2	.174					191.00				
77	7	28	1810	8.1	.025					5.70				
77	7	30	940	10.7	.020					7.00				
77	8	1	1010	9.2	.019					10.60				
77	8	2	1800	5.0	.022	.010		.025	.234	45.90	52.10	10.10		680.
77	8	2	1801	7.0	.032	.011	.080	.026	.360	3.40	51.50			636.
77	8	16	1715	8.1	.029		.070		.320	87.40				663.
77	8	16	1716	8.1	.045	.034	.160	.040	1.190	16.10	52.70	10.00		666.
77	8	22	805	100.0	.249					146.00				
77	8	23	1720	19.9	.074					12.60				
77	8	25	1110	13.0	.067					8.20				
77	8	29	845	8.9	.019					4.70				
77	8	29	1345	7.7	.016					5.40				
77	8	29	1346	7.7	.028					6.20				
77	9	2	1015	9.2	.038					17.70				
77	9	5	955	8.1	.021					1.90				
77	9	8	1015	7.4	.024									
77	9	13	1140	17.5	.085					51.30				
77	9	14	930	39.0	.288	.058	.560	.031	.977	198.00	48.50	8.53		438.
77	9	14	931	39.0	.266	.162	1.030	.087	.751	201.00	69.00	4.60		449.
77	9	14	1140	39.0	.243					154.00				
77	9	15	1015	26.5	.079					25.80				
77	9	16	940	148.6	.367	.144	.990	.076	1.380	344.00	69.60	7.56		457.
77	9	17	935	102.9	.156	.174	1.140	.097	.478	95.60	74.80	8.18		434.

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : YELLOW CREEK

LOCATION W/CODE : NEAR HOTZUM, OHIO

USGS NO. 04206220

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
77 9 20 815	8.9	.079							42.60				
77 9 22 920	18.7	.054							12.30				
77 9 27 1115	11.1	.029							6.10				
77 9 27 1715	15.1	.042							2.00				
77 9 27 1116	11.1	.022							3.20				
77 9 30 1610	11.5	.018							3.00				
77 10 7 945	16.3	.010							2.20				
77 10 9 1005	11.5	.056							24.60				
77 10 10 1325	36.0	.030							5.10				
77 10 10 1115	19.3	.018							4.40				
77 10 10 1700	16.9	.032							6.60				
77 10 13 1130	13.7	.024							7.50				
77 10 17 1055	33.6	.043							14.40				
77 10 20 1005	16.3	.028							11.90				
77 10 22 1400	12.6	.014							9.20				
77 10 22 1401	13.0	.018							7.90				
77 10 24 1040	13.4	.012							4.70				
77 10 28 1600	10.7	.010							7.60				
77 10 31 1020	12.6	.012							6.20				
77 11 3 1630	10.3	.016							7.30				
77 11 4 1610	19.3	.054							12.80				
77 11 7 945	185.0	.516	.035	.410	.106		1.890		460.00	52.90	6.54		
77 11 8 1410	43.7	.089							24.70				
77 11 9 1430	24.3	.042							11.40				
77 11 9 1430	24.3	.047							8.60				
77 11 10 905	47.0	.095							66.40				
77 11 14 1145	39.3	.042							11.70				
77 11 16 810	117.4	.133							82.60				
77 11 17 1055	192.7	.168							131.00				
77 11 18 1215	95.7	.075							78.80				
77 11 20 900	50.9	.073							38.80				
77 11 23 830	32.0	.063							11.80				
77 11 29 1010	36.6	.036							9.85				

MUD BROOK
NEAR
AKRON, OHIO

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : MUD BROOK

LOCATION W/CODE : NEAR AKRON, OHIO

USGS NO. 04206050

SAMPLING DATE	TIME 2400	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
YR MO DY	MRS.													
77	2	2	1300	10.0	.224	.135	.940	1.790	2.480	10.30	83.00	12.30		
77	2	2	1301	10.0	.213	.135	2.700	.022	.345	7.40	80.00			
77	2	3	920	10.0	.249					14.80				
77	2	7	1005	10.0	.261					9.90				
77	2	11	900	10.0	.319					29.50				
77	2	12	945	20.0	.379					89.90				
77	2	12	1200	20.0	.443					107.00				
77	2	12	1330	20.0	.444					121.00				
77	2	12	1505	20.0	.499					159.00				
77	2	13	1220	50.0	.625					317.00				
77	2	13	1345	50.0	.637					378.00				
77	2	13	1525	50.0	.640					454.00				
77	2	14	940	70.0	.405					116.00				
77	2	14	1300	70.0	.383					95.20				
77	2	15	940	70.0	.295					36.00				
77	2	15	1545	70.0	.358					79.30				
77	2	16	955	75.0	.263					10.60				
77	2	16	1615	75.0	.286					44.20				
77	2	17	830	100.0	.224					11.20				
77	2	17	1005	100.0	.226					11.50				
77	2	17	1530	100.0	.243	.141	2.780	.020	.630	32.90	120.00			
77	2	17	1531	100.0	.229	.143	2.890	.036	.570	33.60	121.00	10.80		1884.
77	2	17	1541	100.0	.252					31.90				
77	2	21	1020	40.0	.198	.115	2.810	.028	.530	14.70	121.00	11.20		1100.
77	2	21	1150	40.0	.211	.094	2.370	.063	.720	37.50	112.00	10.00		1041.
77	2	24	935	380.0	.579	.079	2.050	.063	2.190	612.00	98.60	7.44		623.
77	2	24	1150	602.4	1.940	.023	1.560	.036	4.990		85.90	6.94		593.
77	2	24	1255	507.2	1.140	.045	2.070	.041	3.000	1587.00	84.70	6.92		589.
77	2	24	1600	477.2	.819	.092	1.890	.136	2.040	1122.00	99.60	6.49		572.
77	2	25	820	380.0	.454	.115	2.010	.142	1.440		104.00	7.65		635.
77	2	26	840	295.2	.275	.089	2.380	.025	.930		83.70	7.83		571.
77	2	27	805	176.5	.213	.072	2.170	.205	.960	76.60	79.90	7.24		545.
77	2	28	1015	98.7	.165	.061	1.910	.281	.890	67.60	79.20	6.86		558.
77	3	1	1015	72.8	.161	.059	1.690	.402	.880	47.00	78.70	6.96		565.
77	3	2	940	54.5	.161	.047	1.490	.353	.980		83.20	7.94		588.
77	3	2	1730	63.0	.178	.067	2.010	.045	.680	54.80	78.00	8.47		586.

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : MUD CREEK

LOCATION W/CODE : NEAR AKRON, OHIO

USGS NO. 04206050

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
77 3 3 840	48.5	.153							26.40				
77 3 7 850	33.5	.149							18.90				
77 3 10 930	27.2	.141							15.90				
77 3 13 1245	164.0	.273							148.00				
77 3 14 915	166.5	.266							71.80				
77 3 15 955	189.8	.249							57.20				
77 3 16 955	72.8	.234							44.00				
77 3 16 1430	67.9	.230	.068	1.100	.473		1.380		48.30	73.30	7.54		578.
77 3 16 1431	67.9	.215	.087	1.620	.057				47.50				
77 3 17 1025	58.3	.194							27.90				
77 3 18 945	302.1	.461							465.00				
77 3 19 820	264.6	.243							87.30				
77 3 21 840	156.5	.175							148.00				
77 3 22 935	123.3	.184							68.00				
77 3 23 920	119.4	.169							25.10				
77 3 24 820	198.0	.161							23.50				
77 3 28 1005	69.6	.158							41.10				
77 3 29 1040	88.0	.167							32.70				
77 3 29 1700	84.6	.172	.060	.980	.153				41.30				
77 3 29 1701	84.6	.188	.107	1.190	.052				38.80				
77 3 31 1005	55.9	.168							31.60				
77 4 2 820	214.1	1.610	.028	.670	.015				2500.00				
77 4 3 1240	258.1	.256							112.00				
77 4 4 1015	217.2	.211							80.40				
77 4 5 1010	211.1	.248							89.70				
77 4 7 1030	91.5	.152							99.90				
77 4 11 1000	29.7	.103							11.50				
77 4 13 1600	22.2	.093	.067	.480	.123				4.40				
77 4 13 1601	22.2	.111	.059	.640	.026				6.60				
77 4 14 950	23.4	.080							6.50				
77 4 18 935	19.8	.107							5.00				
77 4 21 940	18.7	.137							8.10				
77 4 23 1015	43.3	.230							44.40				
77 4 23 1455	57.3	.786	.032	.730	.079				1111.00				
77 4 25 945	81.1	.210							38.70				
77 4 26 945	61.5	.151							17.70				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : MUD CROOK

LOCATION W/CODE : NEAR AKRON, OHIO

USGS NO. 04206050

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	S102 MG/L	IRON MG/L	COND 25C. UMHO
77 4 27 1230	61.5	.140	.053	.730	.140				3.70				
77 4 27 1231	61.5	.154	.121	1.030	.037				13.20				
77 4 28 0445	40.5	.140							20.00				
77 5 2 1015	33.5	.147							8.10				
77 5 5 1215	61.5	.150							34.30				
77 5 9 940	19.8	.116							9.10				
77 5 11 1030	17.6	.098	.094	.700	.099				8.80				
77 5 11 1031	17.6	.132	.114	1.260	.073				9.50				
77 5 13 015	16.5	.098							6.90				
77 5 16 1020	20.9	.071							8.20				
77 5 20 1010	20.9	.111							11.10				
77 5 23 940	7.2	.126							15.20				
77 5 24 1045	8.0	.144	.084	1.030	.066				21.10				
77 5 24 1046	8.0	.241		2.000	.302				23.60				
77 5 27 045	8.9	.179							28.30				
77 5 31 925	8.9	.174							25.90				
77 6 3 940	13.1	.191							25.20				
77 6 7 1015	19.8	.242							44.90				
77 6 7 1700	17.6	.239		1.970	.323		.810		39.10				
77 6 7 1701	17.6	.236	.158	1.610	.203				36.20	51.90	7.07		657.
77 6 9 1005	40.5	.288							153.00				
77 6 10 955	27.2	.201							41.80				
77 6 13 1045	20.9	.143							10.60				
77 6 17 830	7.2	.080							7.00				
77 6 18 945	25.9	.213							88.80				
77 6 19 1750	23.4	.216							37.40				
77 6 20 1150	15.4	.217							36.50				
77 7 4 845	27.2												636.
77 7 6 1700	14.2												630.
77 7 6 1701	14.2	.195	.148	.600	.083		.450		10.50	58.40	9.64		669.
77 7 7 1125	12.0	.159							4.30				
77 7 11 1245	8.0	.155							5.30				
77 7 14 1200	20.9	.144							5.70				
77 7 18 1055	27.2	.274							70.60				
77 7 18 1605	34.9	.914							11.50				
77 7 19 1250	66.3	1.511	.097	.590	.037		3.410		2131.00	51.60	9.28		619. 169

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : MUD CROOK

LOCATION W/CODE : NEAR AKRON, OHIO

USGS NO. 04206050

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLOR RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
77 7 19 1330	34.0	1.800	.255	.350	.476		3.570		1887.00	59.50	7.96		475.
77 7 19 1515	22.2	.501							391.00				
77 7 19 1516	22.2	.513	.086	.650	.018		.768		390.00	43.70	7.93		500.
77 7 19 1630	34.0	1.660	.396	.230	.540		3.230		923.00	61.40	7.94		481.
77 7 20 1020	19.8	.332							134.00				
77 7 21 1045	17.6	.260							22.20				
77 7 22 905	17.6	.280							59.50				
77 7 25 1210	46.1	.441							284.00				
77 7 28 1800	15.4	.246							15.60				
77 7 30 930	15.4	.197							17.20				
77 8 1 1000	20.9	.167							26.50				
77 8 2 1915	7.2	.192	.106	.240	.030		.649		73.60	52.80	8.14		699.
77 8 2 1916	7.2	.199	.138	.440	.010		.550		63.10	45.80			742.
77 8 16 1730	18.7	.255	.010	.080	.010		.710		58.80	46.20			662.
77 8 16 1731	18.7	.294	.173	.610	.017		.850		30.20	45.90	11.40		661.
77 8 22 755	95.0	.375							192.00				
77 8 23 1710	64.7	.339							76.60				
77 8 25 1100	29.7	.268							36.50				
77 8 29 830	12.0	.195							26.00				
77 8 29 1330	13.1	.179							11.90				
77 8 29 1331	13.1	.212							11.60				
77 9 2 1805	10.9	.183							11.70				
77 9 5 945	7.2	.147							1.50				
77 9 8 1000	8.9	.134							12.70				
77 9 13 1130	15.4	.264							147.00				
77 9 13 1830	22.2	.263	.040	.500	.010		.916		142.00	35.00	6.73		518.
77 9 13 1831	96.9	.290	.164	.950	.062		.980		143.00	59.00	7.05		534.
77 9 14 1130	72.8	.331							183.00				
77 9 15 1000	51.7	.328							59.90				
77 9 16 930	61.5	.316							91.90				
77 9 17 925	79.3	.312							176.00				
77 9 20 800	61.5	.269							68.70				
77 9 22 910	37.7	.225							69.70				
77 9 27 1130	15.4	.169							38.80				
77 9 27 1131	15.4	.190							29.80				
77 9 27 1600	15.4	.149							23.30				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : MUD CROOK

LOCATION W/CODE : NEAR AKRON, OHIO

USGS NO. 04206050

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	S:O2 MG/L	IRON MG/L	COND 25C. UMHO
77 9 30 850	13.1	.128							15.80				
77 10 3 935	17.6	.128							24.00				
77 10 7 955	15.4	.118							16.20				
77 10 9 1310	69.6	.301							155.00				
77 10 10 1110	53.1	.235							51.90				
77 10 10 1715	48.9	.230							48.40				
77 10 10 1716	48.9	.228							41.50				
77 10 13 1120	19.8	.154							7.20				
77 10 17 1045	15.4	.110							17.60				
77 10 20 955	15.4	.136							17.90				
77 10 22 1415	13.1	.093							9.40				
77 10 22 1416	13.1	.095							8.40				
77 10 24 1030	8.0	.072							29.30				
77 10 28 1550	28.9	.058							7.50				
77 10 31 1010	28.9	.050							8.90				
77 11 3 1615	13.1	.039							5.20				
77 11 4 1600	25.9	.216							101.00				
77 11 7 935	64.7	.238							118.00				
77 11 8 1400	48.5	.161							34.10				
77 11 9 1415	28.5	.133							23.60				
77 11 9 1415	28.5	.142							20.30				
77 11 10 855	54.5	.432	.098	1.630	.035		1.450		379.00	45.70	10.60		652.
77 11 14 1135	46.1	.146							20.40				
77 11 16 800	71.2	.159							60.40				
77 11 17 1045	102.4	.276							144.00				
77 11 18 1005	127.2	.218							91.10				
77 11 20 850	64.7	.255							183.00				
77 11 23 820	43.3	.167							19.80				
77 11 29 1000	19.8	.134							29.40				

CUYAHOGA RIVER
AT
OLD PORTAGE, OHIO

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT OLD PORTAGE, OHIO

USGS NO. 04206008

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHOPHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJEL MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLORIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
76 12 4 2040	175.0	.178	.040	1.630	.029				5.20	71.30	5.64		603.
76 12 5 2145	167.0	.123	.046	1.680	.014				4.50	72.20	5.59		599.
76 12 6 835	171.0	.113	.048	1.670	.051				4.30	72.80	6.01		604.
76 12 7 2040	321.0	.150	.055	1.910	.045				10.80	90.70	5.51		711.
76 12 8 835	260.0	.154	.057	2.140	.018				13.70	91.50	5.59		709.
76 12 9 814	232.0	.259	.139	1.950	.019				10.10	87.00	6.70		688.
76 12 11 1640	255.0	.128	.056	1.580	.024				7.30	85.60	6.37		679.
76 12 12 2130	246.0	.120	.044	1.580	.026				10.10	74.10	6.17		608.
76 12 13 1755	248.0	.123	.043	1.620	.017				10.20	74.80	6.64		608.
76 12 14 1715	228.0		.042	1.400	.025				7.40	72.50	6.80		590.
76 12 15 1710	233.0	.100	.032	1.420	.028				7.40	71.60	5.66		595.
76 12 16 2120	228.0	.111	.049	1.520	.065				6.60	80.60	5.43		646.
76 12 17 1750	223.0	.115	.045	1.450	.064				5.40	80.30	5.99		645.
76 12 18 2140	211.0	.101	.031	1.230	.200				6.00	78.20	5.57		629.
76 12 19 1320	203.0	.120	.038	1.140	.232				5.30	76.60	4.83		626.
76 12 20 1715	257.0	.223	.050	1.200	.628				44.00	76.90	6.30		626.
76 12 21 1705	277.0	.164	.038	.970	.633				15.30	92.80	4.74		728.
76 12 22 2126	236.0	.166	.039	.930	.450				9.50	84.00	5.55		668.
76 12 23 1650	241.0	.155	.036	.870	.519				10.70	82.90	5.03		668.
76 12 24 1610	272.0	.144	.029	.810	.584				9.80	90.80	5.22		687.
76 12 25 1930	299.0	.156	.040	.800	.580				10.40	91.10	5.72		686.
76 12 26 1945	326.0	.136	.036	.910	.480				9.30	90.90	5.02		684.
76 12 27 1940	306.0	.120	.026	.670	.441				9.50	84.00	4.80		644.
76 12 28 1840	284.0	.116	.034	.660	.492				11.10	84.10	5.03		636.
76 12 29 1840	261.0	.134	.036	.740	.446				10.60	89.20	4.82		688.
76 12 30 1840	208.0	.138	.034	.740	.459				10.10	90.10	4.98		685.
77 1 3 1630	214.0	.137	.035	.830	.697				5.50	86.80	5.34		689.
77 1 4 1630	209.0	.126	.038	.930	.557				5.80	89.10	6.40		698.
77 1 6 900	180.0	.130	.027	.930	.540		.913		6.60	89.40	6.14		712.
77 1 7 1645	175.0	.117							4.90				
77 1 8 1715	176.0	.144							6.20				
77 1 9 2110	174.0	.140							5.60				
77 1 10 1845	175.0	.150							5.50				
77 1 11 1655	162.0	.159							8.30				
77 1 12 1635	155.0	.170							6.80				
77 1 13 1640	155.0	.143							8.10				

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT OLD PORTAGE, OHIO

USGS NO. 04206800

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJEL MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLOR RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
77 1 14 1840	157.0	.146											
77 1 15 1835	164.0	.133							6.80				
77 1 16 2130	160.0	.140							9.90				
77 1 17 1745	135.0	.136							12.20				
77 1 17 1746	135.0	.135							12.20				
77 1 18 1850	140.0	.107							7.00				
77 1 19 1645	139.0	.108							6.40				
77 1 20 1130	143.0	.133							6.30				
77 1 20 1131	143.0	.184	.024	1.390	.864		2.000		6.20	100.00	6.90		
77 1 21 1640	148.0	.166	.062	2.450	.137		1.800		45.50	115.00	8.60		
77 1 21 1641	148.0	.104							8.80				
77 1 22 2120	147.0	.093							7.10				
77 1 23 1641	142.0	.087							6.70				
77 1 24 650	145.0	.113							6.30				
77 1 25 1545	148.0	.107							6.30				
77 1 26 1630	153.0	.107							7.70				
77 1 27 1645	156.0	.135							6.50				
77 1 28 1630	151.0	.127							10.60				
77 1 29 1855	156.0	.124							10.00				
77 1 30 1215	140.0	.123							59.20				
77 1 31 1910	141.0	.115							10.30				
77 2 1 2120	142.0	.115							5.20				
77 2 2 710	142.0	.113							5.00				
77 2 2 1300	142.0	.138	.058	2.290	.497		1.280		4.80				
77 2 2 1301	142.0	.133	.054	2.580	.065		.550		6.60	114.00	9.77		
77 2 3 1650	145.0	.141							8.60	110.00			
77 2 4 1655	145.0	.137							10.40				
77 2 5 1840	143.0	.118							9.40				
77 2 6 2050	137.0	.128							12.50				
77 2 7 648	137.0	.131							12.40				
77 2 8 1640	137.0	.136							9.50				
77 2 9 1650	144.0	.210							7.50				
77 2 10 1650	171.0	.206							31.90				
77 2 11 1625	261.0	1.070							33.10				
77 2 13 1645	441.0	.243							447.00				
77 2 14 1836	404.0	.225							25.80				
									22.20				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT OLD PORTAGE, OHIO

USGS NO. 84286888

SAMPLING DATE	TIME 2400	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLOR RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
YR	MO	DAY	HRS.											
77	2	15	1530	377.0	.133					9.30				
77	2	16	655	364.0	.145					6.80				
77	2	17	1600	361.0	.194	.080	2.010	.154	1.660	18.60	109.00			
77	2	17	1601	361.0	.243	.088	2.100	.185	.617	26.10	109.00	8.48		751.
77	2	17	1625	361.0	.238	.109	2.180	.102	.617	26.80	111.00	8.69		754.
77	2	18	1640	363.0	.158	.089	2.000	.151	.404	16.30	108.00	8.17		720.
77	2	19	2025	364.0	.165	.092	2.070	.215	.427	15.70	108.00	8.63		721.
77	2	20	1940	354.0	.136	.092	2.040	.238	.382	14.30	106.00	7.99		683.
77	2	21	645	319.0	.133	.085	2.030	.224	.393	14.50	105.00	7.24		692.
77	2	22	1945	318.0	.611	.093	2.070	.198	1.350	233.00	109.00	7.68		727.
77	2	23	1940	458.0	.626	.096	2.070	.180	1.450	240.00	110.00	8.88		725.
77	2	24	645	1018.1	.113	.076	2.060	.194	.998	186.00	101.00	7.58		574.
77	2	24	2050	1241.0	.384	.098	2.260	.360	.909	156.00	108.00	7.99		574.
77	2	25	515	1647.7	.392	.079	2.110	.210	.942	157.00	103.00	6.98		576.
77	2	27	1200	1814.0	.226	.077	2.020	.409	.763	80.40	94.20	7.46		396.
77	2	27	1745	1950.4	.219	.075	1.990	.379	.729	77.10	91.30	7.18		396.
77	2	28	655	2049.1	.221	.051	1.830	.262	.830	78.30	78.30	6.73		397.
77	2	28	1905	1829.0	.235	.064	2.000	.249	.662	82.70	89.10	7.87		395.
77	3	1	650	1647.7	.174	.064	1.760	.363	.965	46.30	82.90	6.62		384.
77	3	1	1640	1526.0	.172	.077	1.920	.336	1.100	42.60	91.10	7.84		386.
77	3	2	1745	1228.0	.179	.037	2.200	.104	.678	32.70	66.90	5.64		384.
77	3	2	1815	1287.2	.111					17.40				
77	3	3	650	1158.0	.127					18.30				
77	3	5	2045	1008.0	.085					8.10				
77	3	6	1250	927.8	.102					4.50				
77	3	7	715	884.0	.080					6.10				
77	3	8	1630	888.0	.106					5.20				
77	3	10	1930	693.0	.090					.90				
77	3	11	710	602.0	.083					2.80				
77	3	12	1815	688.0	.138					26.10				
77	3	13	935	1310.0	.134					26.50				
77	3	13	1900	1310.0	.124					24.30				
77	3	14	625	1146.0	.134					24.80				
77	3	16	1500	1190.0	.118	.034	.800	.401	.910	19.80	62.10	5.78		376.
77	3	16	1501	1190.0	.132	.079	1.350	.259	.050	25.10	70.50	5.69		363.
77	3	16	2225	1026.0	.112					18.80				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT OLD PORTAGE, OHIO

USGS NO. 04206000

SAMPLING DATE	TIME 2400	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	URG. NIT. MG/L	TOTAL NJELO MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
YR	MO	DAY	HRS.											
77	3	17	2155	1320.8	.283					186.00				
77	3	18	1645	1824.0	.300					179.00				
77	3	19	2245	1720.0	.124					31.50				
77	3	20	1810	1510.0	.113					30.00				
77	3	21	1620	1490.0	.111					22.20				
77	3	22	1630	1570.0	.104					18.30				
77	3	22	2145	1570.0	.106					18.00				
77	3	24	2220	1450.0	.083					10.60				
77	3	25	1625	1360.0	.080					8.10				
77	3	26	1850	1200.0	.121					27.50				
77	3	27	1935	1010.0	.114					25.90				
77	3	28	630	1020.0	.126					26.90				
77	3	29	1730	973.0	.086	.072	1.190	.238	.470	14.00	71.20	5.29		415.
77	3	29	1731	973.0	.095	.042	1.160	1.000	.679	19.50	57.30	13.00		438.
77	3	29	2345	973.0	.077					16.00				
77	3	30	645	849.0	.070					15.60				
77	4	1	1745	856.0	.089					16.10				
77	4	2	2140	1460.0	.108					36.40				
77	4	3	1930	1700.0	.118					37.10				
77	4	4	516	1450.0	.114					32.90				
77	4	5	1935	1630.0	.103					34.40				
77	4	6	552	1390.0	.107					36.10				
77	4	7	1940	1330.0	.086					21.00				
77	4	8	655	1130.0	.083					21.30				
77	4	9	1940	968.0	.069					11.80				
77	4	10	1935	840.0	.065					13.10				
77	4	11	655	744.0	.068					14.20				
77	4	12	1940	648.0	.084					10.00	54.20			
77	4	13	710	609.0	.065					11.70	55.90			
77	4	13	1615	609.0	.069	.027	.820	.127	1.040	10.50				435.
77	4	13	1616	609.0	.083	.040	.870	.025	.700	10.90				436.
77	4	14	2150	538.0	.090					9.30				
77	4	15	715	428.3	.098					9.70				
77	4	16	1915	387.0	.086					6.80				
77	4	17	2035	378.0	.093					7.10				
77	4	18	726	341.0	.100					7.00				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT OLD PORTAGE, OHIO

USGS NO. 04206000

SAMPLING DATE	TIME 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLOR RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMMO
77	4 19 1636	207.0	.122							6.90				
77	4 20 1635	186.0	.151							11.90				
77	4 21 2020	186.0	.168							22.80				
77	4 22 1940	203.0	.179							27.10				
77	4 23 710	303.0	.181							26.70				
77	4 24 2010	290.0	.186							25.70				
77	4 25 1730	425.0	.187							25.60				
77	4 26 1530	613.0	.181							24.00				
77	4 27 1300	737.0	.160	.044	.880	.059		.420		26.60	58.70	2.96		488.
77	4 27 1301	737.0	.150	.112	1.190	.040		.450		27.40	68.40	4.89		481.
77	4 27 2000	737.0	.118							18.20				
77	4 28 610	776.0	.116							13.50				
77	4 29 1945	724.0	.104							10.70				
77	4 30 2335	647.0	.107							12.20				
77	5 1 2256	541.0	.091							10.90				
77	5 2 725	513.0	.090							10.50				
77	5 3 1640	517.0	.145							13.60				
77	5 4 2105	544.0	.113							15.70				
77	5 5 715	556.0	.114							17.80				
77	5 7 1240	511.0	.131							12.30				
77	5 8 2110	473.0	.113							10.30				
77	5 9 1630	432.0	.118							4.90				
77	5 11 930	372.0	.107		1.220	.049		.460		10.70	73.60	4.95		554.
77	5 11 931	372.0	.119	.114	2.140	.067		.340		11.00	67.90	2.44		536.
77	5 11 1635	372.0	.110							8.80				
77	5 12 2140	352.0	.118							8.20				
77	5 13 715	316.0	.101							1.70				
77	5 14 1935	287.0	.121							7.30				
77	5 15 2155	254.0	.117							8.20				
77	5 16 1750	240.0	.110							6.00				
77	5 17 1925	232.0	.103							5.30				
77	5 18 715	217.0	.108							6.50				
77	5 19 2130	217.0	.123							5.50				
77	5 20 655	218.0	.124							3.78				
77	5 21 2115	210.0	.921							4.60				
77	5 22 1950	202.0	.102							1.50				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT OLD PORTAGE, OHIO

USGS NO. 04206000

SAMPLING DATE	TIME 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHOPHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
77	5 23 720	203.0	.104											
77	5 24 1015	271.0	.131	.077	1.840	.049		.360		3.20				
77	5 24 1016	271.0	.120		2.260	.316				6.10	100.00	4.69		860.
77	5 24 2030	271.0	.107								98.10	6.83		889.
77	5 25 710	225.0	.127							5.80				
77	5 26 2155	169.0	.099							6.60				
77	5 27 650	165.0	.113											
77	5 29 2055	162.0	.072											
77	5 30 2115	157.0	.076											
77	5 31 625	219.0	.074											
77	6 1 2120	222.0	.092							1.40				
77	6 2 725	177.0	.092							2.70				
77	6 5 2310	282.0	.183							2.78				
77	6 6 650	386.0	.172							44.30				
77	6 7 1730	299.0	.136		1.960	.184				40.60				
77	6 7 1731	299.0	.114	.091	2.020	.089				27.40	105.00	6.56		920.
77	6 7 2150	299.0	.085							25.00	105.00	6.97		878.
77	6 8 1635	246.0	.097							17.40				
77	6 10 2115	298.0	.547							16.50				
77	6 12 2015	313.0	.124							892.00				
77	6 13 745	323.0	.103							29.20				
77	6 14 2015	303.0	.094							21.40				
77	6 15 725	256.0	.104							8.50				
77	6 16 2110	212.0	.089							6.20				
77	6 17 725	337.0	.086							14.70				
77	6 18 2140	328.0	.081							6.50				
77	6 19 2005	208.0	.070							6.90				
77	6 20 720	168.0	.077							9.10				
77	6 21 2145	116.0	.093							4.60				
77	6 22 725	142.0	.081							5.90				
77	6 23 2150	156.0	.296							4.80				
77	6 24 2015	130.0	.307							10.50				
77	6 25 1250	208.0	.291							12.90				
77	6 26 1930	157.0	.291							9.90				
77	6 26 2010	157.0	.231							8.00				
77	7 1 720	290.0	.240							55.10				
										56.00				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT OLD PORTAGE, OHIO

USGS NO. 84286888

SAMPLING DATE	TIME 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
77	7	2	1835	158.0	.750					428.00				
77	7	3	2020	111.0	.764					423.00				
77	7	4	1130	284.0	.736					430.00				
77	7	6	1715	208.0	.239	.112	1.560	.368	.600	12.10	94.80	9.13		798.
77	7	6	1716	208.0	.250	.114	2.240	.079	.840	14.70	100.00	9.78		887.
77	7	6	2355	208.0	.177					8.70				
77	7	7	1935	263.0	.160					14.10				
77	7	7	2150	263.0	.169					18.90				
77	7	9	1355	175.0	.183					18.10				
77	7	10	1740	168.0	.292					17.40				
77	7	11	650	281.0	.305					13.60				
77	7	12	1715	226.0	.244					40.30				
77	7	13	540	191.0	.165					26.10				
77	7	14	1845	176.0	.218					8.30				
77	7	15	715	154.0	.218					6.70				
77	7	16	2040	255.0	.153					42.20				
77	7	17	1745	418.0	.171					37.80				
77	7	18	650	293.0	.146					40.10				
77	7	19	1540	266.0	.613					230.00				
77	7	19	1700	266.0	.591					512.00				
77	7	19	1900	266.0	.603					104.00				
77	7	19	2125	266.0	.245					8.90				
77	7	20	650	239.0	.245					8.30				
77	7	21	2035	268.0	.254					15.60				
77	7	22	645	271.0	.257					16.80				
77	7	23	1930	223.0	.335					73.20				
77	7	24	2155	188.0	.337					80.10				
77	7	25	720	259.0	.320					70.90				
77	7	26	2045	263.0	.250					15.80				
77	7	27	655	201.0	.255					.90				
77	7	28	1955	167.0	.360					10.10				
77	7	29	655	195.0	.373					9.50				
77	7	30	2155	211.0	.359					20.10				
77	7	31	2105	151.0	.320					10.60				
77	8	1	720	154.0	.331					14.20				
77	8	2	1815	153.0	.413	.151	.030		3.730	17.80	117.00	9.52		1843. 181

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT OLD PORTAGE, OHIO

USGS NO. 84286000

SAMPLING DATE	TIME 24HR YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMMO
77	8 2 1816	153.0	.400	.082	1.450	.169		6.910		14.80	118.00			1107.
77	8 2 2135	153.0	.311							12.30				
77	8 3 725	149.0	.351							12.50				
77	8 4 1925	147.0	.549							18.60				
77	8 5 725	187.0	.548							19.50				
77	8 6 2155	241.0	.200							24.60				
77	8 7 1940	602.0	.188							22.00				
77	8 8 725	267.0	.196							24.20				
77	8 9 2050	294.0	.221							23.10				
77	8 10 715	605.0	.191							15.00				
77	8 11 2150	464.0	.288							101.00				
77	8 12 715	527.0	.295							105.00				
77	8 13 1725	388.0	.235							30.70				
77	8 14 1940	349.0	.240							29.70				
77	8 15 725	427.0	.241							28.30				
77	8 16 1800	491.0	.379	.483	4.210	.022		1.370		80.50	193.00			833.
77	8 16 1801	491.0	.386	.154	.930	.091		1.600		66.10	114.00	5.40		830.
77	8 16 2050	491.0	.394							105.00				
77	8 17 725	701.0	.487							176.00				
77	8 18 715	500.0	.221							21.40				
77	8 20 2018	428.0	.211							37.40				
77	8 21 1950	492.0	.213							36.30				
77	8 22 715	565.0	.218							38.40				
77	8 23 2050	422.0	.298							21.50				
77	8 24 725	353.0	.291							23.30				
77	8 25 1945	297.0	.266							15.70				
77	8 26 720	251.0	.270							16.60				
77	8 27 1935	215.0	.300							13.60				
77	8 28 2025	208.0	.296							12.10				
77	8 29 725	199.0	.296							13.40				
77	8 29 1300	199.0	.245							20.30				
77	8 29 1301	199.0	.238							33.10				
77	8 30 1950	175.0	.281							14.30				
77	8 31 725	155.0	.278							14.30				
77	9 4 1935	161.0	.319							15.40				
77	9 5 1210	152.0	.313							12.50				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT OLD PORTAGE, OHIO

USGS NO. 04286000

SAMPLING TIME DATE 2400 YR MO DY MRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLOR RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
77 9 6 2110	153.0	.444							15.00				
77 9 7 700	162.0	.425							17.30				
77 9 8 1755	159.0	.618							20.00				
77 9 9 1635	157.0	.607							19.00				
77 9 10 2045	165.0	.459							11.00				
77 9 11 1940	153.0	.454							12.90				
77 9 12 715	156.0	.438							12.00				
77 9 13 1930	287.0	.551	.059	.220	1.110		3.700		105.00	135.00	6.22		1043.
77 9 13 1931	287.0	.513	.152	.160	1.030		3.270		182.00	121.00	8.45		1005.
77 9 13 2345	287.0	.326							187.00				
77 9 14 715	586.0	.332							182.00				
77 9 15 2045	411.6	.386							163.00				
77 9 16 730	461.0	.385							162.00				
77 9 17 1925	487.0	.192							19.00				
77 9 18 2145	493.0	.182							20.00				
77 9 19 725	482.0	.188							22.40				
77 9 20 1930	430.0	.246							18.40				
77 9 21 1640	406.0	.239							22.00				
77 9 23 1635	360.0	.239							17.80				
77 9 25 2155	362.0	.206							15.00				
77 9 26 730	354.0	.205							16.40				
77 9 27 1145	310.0	.252							17.20				
77 9 27 1146	310.0	.267							17.60				
77 9 27 2115	310.0	.227							14.30				
77 9 28 735	294.0	.226							12.30				
77 9 29 1940	278.0	.235							11.90				
77 9 30 710	262.0	.243							14.00				
77 10 1 2055	295.0	.239							17.00				
77 10 2 1950	302.0	.261							12.50				
77 10 3 730	263.0	.255							14.30				
77 10 4 1945	344.0	.153							12.10				
77 10 5 725	327.0	.146							11.10				
77 10 6 1955	329.0	.131							14.40				
77 10 7 730	321.0	.125							12.00				
77 10 8 2145	370.0	.132							19.40				
77 10 9 1955	485.0	.127							17.60				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT OLD PORTAGE, OHIO

USGS NO. 04206800

SAMPLING DATE	TIME	FLOW	TOTAL	ORTHO	NO-2	NH-3	ORG.	TOTAL	COD	SUSPEND	CHLO	SI02	IRON	COND
YR MO DY	HRS.	CFS	PHOS.	PHOS.	NO-3	MG/L	NIT.	KJELD	MG/L	SOLIDS	RIDE	MG/L	MG/L	25C.
			MG/L	MG/L	MG/L		MG/L	MG/L		MG/L	MG/L			UMHO
77 10 10	725	365.0	.128							18.50				
77 10 10	1730	365.0	.144							17.30				
77 10 10	1731	365.0	.156							12.70				
77 10 11	2010	358.0	.130							18.30				
77 10 12	735	346.0	.135							11.30				
77 10 15	2010	327.0	.118							16.30				
77 10 16	2145	339.0	.115							16.60				
77 10 17	730	329.0	.114							17.90				
77 10 18	1945	317.0	.115							21.70				
77 10 19	725	297.0	.117							25.00				
77 10 20	2040	291.0	.112							10.60				
77 10 21	2045	259.0	.118							12.00				
77 10 22	1430	158.0	.100							50.60				
77 10 22	1431	158.0	.175							80.20				
77 10 23	1945	125.0	.100							10.00				
77 10 24	715	124.0	.104							12.00				
77 10 25	1945	125.0	.158							66.10				
77 10 26	730	273.0	.151							60.60				
77 10 27	2145	275.0	.156							27.20				
77 10 28	715	263.0	.167							25.90				
77 10 29	2115	166.0	.102							10.20				
77 10 30	1950	154.0	.099							18.30				
77 10 31	725	155.0	.101							18.20				
77 11 1	1940	187.9	.139							44.10				
77 11 2	715	266.0	.119							38.40				
77 11 4	2155	279.0	.665	.032	.410	.048		1.980		390.00	44.30	5.92		483.
77 11 5	1950	265.0	.667	.031	.280	.079		2.850		393.00	43.90	5.18		484.
77 11 6	725	268.0	.688	.024	.350	.214		2.450		364.00	44.00	5.18		492.
77 11 7	720	525.0	.156							24.60				
77 11 8	2150	335.0	.148							19.80				
77 11 9	730	319.0	.144							18.30				
77 11 9	1400	319.0	.150							22.00				
77 11 9	1400	319.0	.141							19.60				
77 11 11	1955	462.8	.107							17.80				
77 11 12	2115	451.0	.103							17.00				
77 11 13	1845	452.0	.104							19.90				

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT OLD PORTAGE, OHIO

USGS NO. 04206000

SAMPLING TIME DATE YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
77 11 14 720	442.0	.102							18.60	10.00			
77 11 15 1950	549.0	.259							137.00				
77 11 16 1835	791.4	.260							127.00				
77 11 17 2240	1203.2	.144							37.40				
77 11 18 1725	1170.0	.122							39.00				
77 11 19 1220	1118.0	.128							50.00				
77 11 20 2120	1150.0	.135							35.00				
77 11 21 2040	1160.0	.122							32.50				
77 11 25 2145	656.0	.090							14.30				
77 11 26 1330	577.0	.079							15.40				
77 11 27 745	489.0	.085							9.20				
77 11 28 2145	445.0	.091							8.50				
77 11 30 1845	566.0	.242							101.00				

LITTLE CUYAHOGA RIVER
AT
AKRON, OHIO

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : LITTLE CUYAHOGA RIVER

LOCATION W/CODE : AT AKRON, OHIO

USGS NO. 04205700

SAMPLING DATE	TIME 2400	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLOR RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
YR MO DY	HRS.													
77	3 29	800	131.0	.127	.075	1.540	.136	.949		9.00	98.40	5.57		885.
77	4 14	1000	73.8	.149	.064	.910	.168	1.480		3.30	109.00	3.47		810.
77	4 14	1001	73.8	.172	.084	1.260	.066	.673		7.30	96.30	4.98		833.
77	4 27	1330	91.7	.222	.071	.860	.234	1.363		12.90	126.00	3.45		963.
77	4 27	1331	91.7	.192	.162	1.380	.044	1.023		13.10	96.00	4.04		962.
77	5 11	900	49.1	.156	.139	1.250	.210	.810		9.40	89.90	4.13		909.
77	5 11	901	49.1	.218	.197	2.210	.089	.203		6.60	97.20	4.26		899.
77	5 24	1000	43.6	.194		2.390	.108	1.073		11.00	96.40	5.42		997.
77	5 25	1340	22.4	.233						7.10				
77	5 24	1001	43.6	.193		1.440	.133	.386		10.30	119.00	5.12		1019.
77	6 7	1630	32.9	.177		1.540	.219	.531		7.30	114.00	5.78		1030.
77	6 7	1631	32.9	.155		1.860	.087	.240		6.20	104.00	6.12		1027.
77	7 6	1831	33.9	.240	.120	.940	.039	.543		70.80	122.00	5.65		1013.
77	7 19	1610	108.0	.714						200.00				
77	7 18	1600	108.0	.668						167.00				
77	8 2	1900	46.9	1.240	.674			5.480		42.70		8.20		2284.
77	8 2	1900	46.9	1.200	.753	.010		8.370		34.30		.90		2484.
77	8 8	720	45.8	1.140	.484			11.400		38.10		1.10		3042.
77	8 16	1845	44.7	1.030	.080	.570	.012	6.940		47.50	43.50			2688.
77	8 16	1845	44.7	.100	.720	.400	4.540	6.610		42.20	617.00	11.20		2452.
77	9 13	1900	99.8	.890	.160	.200	1.680	4.623		184.00		4.80		1681.
77	9 13	1900	99.8	.557	.132	1.680	.054	1.220		178.00	168.00	6.66		1677.
77	9 27	1245	55.1	.835						35.20				
77	9 27	1315	55.1	.901						33.20				
77	10 10	1745	30.3	.132						13.40				
77	10 10	1745	30.3	.132						9.30				
77	10 19	1740	16.3	.148						10.40				
77	10 22	1500	9.1	.195						10.90				
77	10 22	1500	9.1	.183						6.70				
77	11 9	1330	12.1	.145						8.30				
77	11 9	1330	12.1	.144						8.60				

CUYAHOGA RIVER
AT
HIRAM RAPIDS, OHIO

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT MINAM RAPIDS, OHIO

USGS NO. 04202000

SAMPLING DATE	TIME 2400	FLOW CFS	TOTAL SOLIDS MG/L	TOT DIS SOLIDS MG/L	TOTAL ORG C MG/L	DIS. ORG C MG/L	TOTAL C MG/L	SOL PHOS MG/L
YR MO DY	MRS.							
75	2 22	2300	460.	150.0	144.0			
75	2 22	2400	460.			10.0	10.0	
75	2 23	100	460.					.06
75	2 23	200	461.	160.0	149.0			
75	2 23	300	470.			12.0	8.0	
75	2 23	400	475.					.06
75	2 23	500	480.	189.0	135.0			
75	2 23	600	485.			10.0	9.0	
75	2 23	700	490.					.06
75	2 23	800	505.	145.0	142.0			
75	2 23	900	505.			10.0	7.0	
75	2 23	1000	515.					.06
75	2 23	1100	520.	120.0	126.0			
75	2 23	1200	530.			10.0	10.0	
75	2 23	1300	540.					.06
75	2 23	1400	535.	140.0	125.0			
75	2 23	1500	535.			10.0	10.0	
75	2 23	1600	545.					.06
75	2 23	1700	550.	153.0	149.0			
75	2 23	1800	560.			10.0	10.0	
75	2 23	1900	570.					.06
75	2 23	2000	580.	140.0	147.0			
75	2 23	2100	585.			10.0	8.0	
75	2 23	2200	605.					.06
75	2 23	2300	646.	175.0	141.0			
75	2 23	2400	679.			10.0	8.0	
75	2 24	100	715.					.07
75	2 24	200	735.	153.0	146.0			
75	2 24	500	823.			7.0	8.0	
75	2 24	800	890.					.03
75	2 24	1100	926.	142.0	139.0			
75	2 24	1400	1007.			7.0	7.0	
75	2 24	1700	1066.					.04
75	2 24	2000	1147.	122.0	115.0			
75	2 24	2300	1245.			8.0	8.0	
75	2 25	230	1357.					.05

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT HIRAM RAPIDS, OHIO

USGS NO. 04202800

SAMPLING TIME DATE 2400 VR MO DY HRS.	FLOW CFS	TOTAL SOLIDS MG/L	TOT DIS SOLIDS MG/L	TOTAL ORG C MG/L	DIS. ORG C MG/L	TOTAL C MG/L	SOL PHOS MG/L
75 2 25 500	1468.	137.0	119.0				
75 2 25 800	1558.			12.0	8.0		
75 2 25 1100	1612.						.04
75 2 25 1400	1666.	129.0	127.0				
75 2 25 1700	1708.			8.0	8.0		
75 2 25 2000	1726.						.05
75 2 25 2300	1744.	143.0	135.0				
75 2 26 200	1732.			7.0	8.0		
75 2 26 500	1702.						.04
75 2 26 800	1684.	146.0	133.0				
75 2 26 1100	1648.			8.0	8.0		
75 2 26 1400	1618.						.02
75 2 26 1700	1582.	138.0	132.0				
75 2 26 2000	1546.			10.0	8.0		
75 2 26 2300	1496.						.03
75 2 27 200	1468.	136.0	134.0				
75 2 27 500	1428.			13.0	8.0		
75 2 27 800	1368.						.04
75 2 27 1100	1328.	132.0	128.0				
75 2 27 1600	1248.			13.0	8.0		
75 2 28 1400	967.	125.0	115.0	9.0	8.0		.02
75 5 21 1800	59.	228.0				26.0	
75 5 21 1900	59.			14.0	10.0		
75 5 21 2100	60.	271.0	240.0			24.0	
75 5 21 2200	62.			11.0	10.0		
75 5 21 2400	69.	277.0	234.0			24.0	
75 5 22 150	69.			10.0	10.0		
75 5 22 300	79.	212.0	169.0			23.0	
75 5 22 400	83.			11.0	10.0		
75 5 22 600	93.	222.0	196.0			25.0	
75 5 22 700	97.			11.0	10.0		
75 5 22 900	105.	206.0	177.0			24.0	
75 5 22 1000	107.			10.0	10.0		
75 5 22 1200	112.	199.0	158.0			22.0	
75 5 22 1300	114.			11.0	10.0		
75 5 22 1500	117.	201.0	171.0			22.0	

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT HIRAM RAPIDS, OHIO

USGS NO. 04262000

SAMPLING TIME	FLOW	TOTAL	TOT DIS	TOTAL	DIS.	TOTAL	SOL
DATE 2470	CFS	SOLIDS	SOLIDS	ORG C	ORG C	C	PHOS
YR MO DY HRS.		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
75 5 22 1600	119.			12.0	10.0		
75 5 22 1800	120.	214.0	188.0			23.0	
75 5 22 1900	122.			10.0	10.0		
75 5 22 2100	126.	242.0	182.0			26.0	
75 5 22 2300	128.			10.0	10.0		
75 5 23 300	132.	224.0	160.0			24.0	
75 5 23 500	134.			10.0	10.0		
75 5 23 900	136.	219.0	165.0			23.0	
75 5 23 1100	138.			12.0	10.0		
75 5 23 1500	140.	209.0	169.0			24.0	
75 5 23 1700	142.			13.0	13.0		
75 5 23 2100	140.	210.0	166.0			24.0	
75 5 23 2300	142.			13.0	13.0		
75 5 24 300	142.	160.0	44.0			26.0	
75 5 24 500	142.			14.0	11.0		
75 5 24 900	142.	166.0	38.0			25.0	
75 5 24 1100	140.			11.0	11.0		
75 5 24 1500	138.	169.0	32.0			23.0	
75 5 24 1700	138.			11.0	10.0		
75 5 24 2100	134.	166.0	38.0			25.0	
75 5 24 2300	134.			12.0	12.0		
75 5 25 300	132.	170.0	56.0			26.0	
75 5 25 500	130.			12.0	10.0		
75 5 27 1100	134.	187.0	23.0	14.0	14.0	29.0	

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT MIRAM RAPIDS, OHIO

USGS 40. 04232060

SAMPLING TIME				FLOW	TOTAL	ORTHO	NO-2	NH-3	CMG.	TOTAL	COD	SUSPEND	CHLOR	SIDR	IRON	COND
DATE			24:00	CFS	PHOS.	PHOS.	NO-3		NIT.	NITRO		SOLIDS	NIDE			25C.
YR	MO	DAY	HRS.		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UMHO
75	2	25	500	1468.0				.100	.200		17.00	18.00				
75	2	25	800	1558.0												
75	2	25	1100	1612.0	.060	.010	.633									
75	2	25	1400	1666.0								2.00				
75	2	25	1700	1708.0				.100	.100		18.00					
75	2	25	2000	1726.0	.050	.010	.540					8.00				
75	2	25	2300	1744.0												
75	2	26	200	1732.0				.100	.200		21.00					
75	2	26	500	1702.0	.050	.010	.628									
75	2	26	800	1684.0								13.00				
75	2	26	1100	1648.0							19.00					
75	2	26	1400	1618.0	.040	.010	.589									
75	2	26	1700	1582.0								6.00				
75	2	26	2000	1546.0				.100	.200		19.00					
75	2	26	2300	1496.0	.050	.010	.550					2.00				
75	2	27	200	1468.0							19.00					
75	2	27	500	1420.0												
75	2	27	800	1368.0	.040	.010	.584									
75	2	27	1100	1320.0								4.00				
75	2	27	1600	1240.0				.100	.100		21.00					
75	2	28	1400	967.0								10.00				
75	2	28	1400	967.0	.040	.010	.527									
75	2	28	1400	967.0				.100	.100		11.00					
75	5	21	1000	59.0												269.
75	5	21	1900	59.0				.100	.600	.700	57.00					
75	5	21	2000	59.0	.120	.020	.070									
75	5	21	2100	60.0								31.00	25.00			267.
75	5	21	2200	62.0				.100	1.100	1.200	78.00					
75	5	21	2300	65.0	.190	.040						43.00	25.00			266.
75	5	21	2400	69.0			.100									
75	5	22	100	69.0				.100	.500	.600	80.00					
75	5	22	200	74.0	.150	.010	.120					43.00	22.00			267.
75	5	22	300	79.0												
75	5	22	400	83.0				.100	.500	.600	71.00					
75	5	22	500	87.0	.150	.020										
75	5	22	600	93.0			.100					26.00	25.00			267.

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT MIRAM RAPIDS, OHIO

USGS NO. 04202000

SAMPLING DATE	TIME	FLOW	TOTAL PHOS.	ORTHO PHOS.	NO-2 NO-3	NH-3	ORG. NIT.	TOTAL KJELD	COD	SUSPEND SOLIDS	CHLO RIDE	SIO2	IRON	COND 25C. UMH0
YR MO DY	HRS.	CFS	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
75	5	22	700	97.0			.200	.500	.700	76.00				
75	5	22	800	100.0										
75	5	22	900	105.0		.070				29.00	24.00			250.
75	5	22	1000	107.0			.100	.600	.700	62.00				
75	5	22	1100	110.0		.130								
75	5	22	1200	112.0						41.00	29.00			250.
75	5	22	1300	114.0			.100	.500	.600	72.00				
75	5	22	1400	115.0										
75	5	22	1500	117.0		.100				30.00	26.00			250.
75	5	22	1600	119.0			.100	.500	.600	82.00				
75	5	22	1700	120.0										
75	5	22	1800	120.0		.140				26.00	25.00			266.
75	5	22	1900	122.0			.100	.500	.600	78.00				
75	5	22	2000	124.0										
75	5	22	2100	126.0		.050				60.00	27.00			250.
75	5	22	2300	128.0			.100	.800	.900	29.00				
75	5	23	100	130.0										
75	5	23	300	132.0		.220				64.00	28.00			252.
75	5	23	500	134.0			.100	.600	.700	27.00				
75	5	23	700	136.0										
75	5	23	900	136.0		.230				54.00	23.00			264.
75	5	23	1100	138.0			.100	.500	.600	29.00				
75	5	23	1300	138.0										
75	5	23	1500	140.0		.190				40.00	27.00			264.
75	5	23	1700	142.0			.100	.500	.600	28.00				
75	5	23	1900	140.0										
75	5	23	2100	140.0		.210				44.00	28.00			252.
75	5	23	2300	142.0			.100	.600	.700	33.00				
75	5	24	100	142.0										
75	5	24	300	142.0		.180				44.00	26.00			252.
75	5	24	500	142.0			.100	.600	.700	29.00				
75	5	24	700	142.0										
75	5	24	900	142.0		.060				38.00	25.00			252.
75	5	24	1100	140.0			.100	.900	1.000	22.00				
75	5	24	1300	140.0										
75	5	24	1500	138.0		.060				32.00	23.00			264.

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CUYAHOGA RIVER

STREAM : CUYAHOGA RIVER

LOCATION W/CODE : AT MIRAM RAPIDS, OHIO

USGS NO. 04202000

SAMPLING TIME	FLOW	TOTAL	ORTHO	NO-2	NH-3	ORG.	TOTAL	COD	SUSPEND	CHLOR	SI02	IRON	COND
DATE 2400	CFS	PHOS.	PHOS.	NO-3		NIT.	KJELD		SOLIDS	IDE			25C.
YR MO DY HRS.		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UMHO
75 5 24 1700	138.0				.100	.600	.700	29.00					
75 5 24 1900	136.0	.240	.060										264.
75 5 24 2100	134.0			.070					38.00	25.00			
75 5 24 2300	134.0				.100	.600	.700	28.00					
75 5 25 100	132.0	.190	.070										264.
75 5 25 300	132.0			.080					56.00	26.00			
75 5 25 500	130.0				.100	.600	.700	31.00					267.
75 5 27 1100	134.0	.140	.040	.100	.100	.600	.700	28.00	23.00	29.00			

MONTVILLE DITCH
AT
MONTVILLE, OHIO

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : GRAND RIVER

STREAM : MONTVILLE DITCH

LOCATION W/CODE : AT MONTVILLE, OHIO

USGS NO. 04210090

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHOPHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLOR RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
77 3 12 1140		.046	.002	.280	.003				10.00	75.10	5.10		398.
77 4 2 030	2.5	.153	.011	.390	.003				47.00	48.80	3.12		278.
77 4 2 1010	7.4	.082	.004	.270	.024				53.00	103.00	3.70		458.
77 4 2 1330	5.8	.065	.003	.110	.003				35.00	41.70	3.36		245.
77 4 2 1520	4.8	.064	.003	.128	.004				43.00	40.50	3.52		240.
77 4 2 1855	4.4	.064	.011	.080	.065				34.00	44.10	4.80		263.
77 4 3 1015	1.6	.054	.004	.680	.024				30.00	34.00	3.75		214.
77 4 3 1345	1.0	.030	.001	.018	.003				33.00	30.40	3.00		287.
77 4 3 1520	1.0	.069	.004	.022	.003				31.00	32.90	3.58		219.
77 4 3 1920	.8	.030	.002	.020	.003				26.00	45.60	3.86		246.
77 4 4 1130	1.0	.053	.003	.048	.012				14.00	44.90	3.28		283.
77 4 4 1540	.8	.064	.003	.026	.003				12.00	52.10	3.36		302.
77 4 4 1610	.8	.055	.003	.033	.017				7.00	52.10	3.36		302.
77 4 4 1640	.8	.064	.003	.027	.003				8.00	51.50	3.36		304.
77 4 4 1930	.9	.064	.006	.042	.170				14.00	54.60	3.47		318.
77 4 5 1607	.8	.040	.003	.016	.003				10.00	71.50	3.66		370.
77 4 5 2126	.8	.042	.003	.006	.028				9.00	66.00	3.55		358.
77 4 6 115	.6	.045	.003	.010	.003				6.00	61.30	3.53		340.
77 4 6 210	.6	.040	.003	.020	.003				7.00	61.50	3.51		342.
77 4 6 1205	.6	.050	.005	.126	.003				27.00	54.60	3.42		319.
77 4 6 1240	.6	.053	.002	.043	.003				12.00	52.10	3.34		312.
77 5 17 1945		.035	.003	.560	.015				14.00	37.40	8.86		564.
77 5 24 1150		.040	.002	.120	.003				2.00	42.00	9.58		580.
77 6 6 1340	3.1	.073	.001	.540	.036				40.00	81.60	4.63		546.
77 6 6 1630	2.4	.064	.004	.400	.060				16.00	77.30	5.17		934.
77 6 6 1640	1.5	.052	.050	.310	.143				14.00	77.70	5.32		544.
77 6 6 1655	1.5	.043	.003	.300	.032				13.00	77.00	5.29		541.
77 6 6 2015	1.5	.065	.001	.256	.196				11.00	78.30	5.35		549.
77 6 6 2045	1.5	.051	.002	.240	.048				3.00	77.70	5.48		549.
77 6 6 2245	1.5	.100	.018	.200	.051				35.00	83.00	5.62		580.
77 6 7 40	1.5	.069	.004	.150	.046				10.00	83.00	5.49		590.
77 6 7 320	1.5	.050	.024	.110	.026				2.00	81.60	5.41		585.
77 6 7 500	1.3	.606	.540	.100	.004				2.00	84.00	5.41		595.
77 6 7 530	1.3	.070	.006	.120	.003				4.00	85.80	5.31		600.
77 6 7 830	1.3	.034	.001	.100	.147				8.00	76.40	5.37		580.
77 6 7 900	1.2	.048	.018	.100	.025				10.00	73.00	5.37		572.

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : GRAND RIVER

STREAM : MONTVILLE DITCH

LOCATION W/CODE : AT MONTVILLE, OHIO

USGS NO. 04210090

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJEL MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMMO
77 6 7 1030	1.2	.030	.001	.090	.074				1.00	70.60	5.44		964.
77 6 7 1100	1.2	.040	.001	.085	.084				1.00	71.50	5.34		967.
77 6 7 1230	.8	.045	.002	.082	.014				15.00	71.00	5.42		962.
77 6 7 1430	.7	.035	.002	.082	.154				6.00	73.60	5.52		972.
77 6 7 1500	.7	.040	.002	.124	.180				8.00	76.10	5.42		985.
77 6 7 1640	.7	.030	.004	.093	.062				1.00	76.10	5.25		975.
77 6 7 1710	.6	.025	.002	.052	.003				1.00	72.10	5.50		970.

HOSKINS CREEK
AT
HARTSGROVE, OHIO

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : GRAND RIVER

STREAM : HOSKINS CREEK

LOCATION W/CODE : AT HARTSGROVE, OHIO

USGS NO. 84210100

SAMPLING DATE	TIME 2400	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
YR	MO	DAY	HRS.											
77	3	12	1200	.030	.005	.108	.003			9.00	29.80	3.34		205.
77	4	2	0445	.055	.015	.144	.002			30.00	29.50	1.70		223.
77	4	2	1030	.180	.007	.182	.003			126.00	31.50	2.07		224.
77	4	2	1350	.075	.006	.035	.058			46.00	19.20	1.92		178.
77	4	2	1535	.23.5	.086	.118	.003			36.00	16.20	2.16		156.
77	4	2	1915	.27.0	.075	.132	.003			43.00	14.30	2.67		139.
77	4	3	1040	.30.5	.056	.055	.003			19.00	18.30	2.30		152.
77	4	3	1400	.27.0	.050	.044	.003			11.00	17.40	2.30		152.
77	4	3	1540	.28.5	.060	.070	.005			12.00	19.60	2.27		155.
77	4	3	1900	.21.0	.052	.004	.003			10.00	22.30	2.16		162.
77	4	4	1145	5.0	.085	.336	.004			7.00	42.40	1.88		233.
77	4	4	1606	5.0	.040	.100	.003			7.00	37.70	1.95		232.
77	4	4	1630	5.0	.063	.008	.003			29.00	40.30	2.00		229.
77	4	4	1915	9.0	.055	.011	.003			95.00	38.50	2.00		232.
77	4	5	1550	15.0	.070	.006	.003			7.00	24.30	2.24		188.
77	4	5	2139	9.4	.170	.092	.003			18.00	27.00	2.18		204.
77	4	6	59	9.8	.065	.035	.022			7.00	27.50	1.99		197.
77	4	6	148	9.4	.053	.006	.003			1.00	27.70	1.93		192.
77	4	6	1220	8.2	.075	.112	.003			5.00	29.30	1.70		186.
77	4	6	1300	8.0	.109	.005	.003			7.00	26.10	1.75		190.
77	4	6	2000	5.4	.051	.003	.010			76.00	27.30	1.92		196.
77	5	17	2010		.030	.004	.003			2.00	47.40	3.05		350.
77	5	24	1205		.170	.164	.004			15.00	45.30	4.42		384.
77	6	6	1350	10.0	.240	.228	.163			17.00	22.80	4.00		267.
77	6	6	1650	8.0	.140	.021	.063			36.00	22.00	3.05		267.
77	6	6	1830	6.6	.158	.021	.120			25.00	24.40	3.70		275.
77	6	6	1900	6.6	.086	.020	.133			18.00	24.90	3.74		275.
77	6	6	2000	6.6	.090	.012	.062			7.00	26.00	3.69		282.
77	6	6	2030	6.2	.090	.013	.174			15.00	26.20	3.54		282.
77	6	6	2309	8.8	.090	.013	.070			24.00	27.30	3.60		292.
77	6	7	108	9.8	.100	.013	.028			13.00	30.00	3.54		282.
77	6	7	300	9.8	.111	.010	.032			27.00	29.00	3.50		272.
77	6	7	437	9.0	.149	.020	.040			24.00	27.00	3.52		272.
77	6	7	515	8.8	.090	.016	.022			15.00	31.50	3.62		277.
77	6	7	0445	8.0	.085	.012	.150			10.00	30.40	3.59		287.
77	6	7	915	8.0	.103	.021	.040			16.00	32.70	3.72		292.

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : GRAND RIVER

STREAM : MOSKINS CREEK

LOCATION W/CODE : AT HARTSGROVE, OHIO

USGS NO. 04210100

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLOR RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMMO
77 6 7 1045	6.6	.145	.013	.490	.134				12.00	34.00	3.69		300.
77 6 7 1115	6.2	.102	.027	.404	.044				7.00	34.10	3.72		300.
77 6 7 1245	6.2	.103	.014	.423	.100				7.00	38.70	3.50		321.
77 6 7 1440	5.6	.085	.020	.358	.190				8.00	42.90	3.50		331.
77 6 7 1510	5.6	.081	.019	.350	.084				8.00	42.40	3.50		336.
77 6 7 1655	5.2	.102	.016	.302	.060				9.00	41.00	3.40		331.
77 6 7 1730	5.0	.083	.012	1.060	.003				8.00	43.40	3.46		359.

HUBBARD RUN TRIBUTARY
AT
ASHTABULA, OHIO

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : ASHTABULA RIVER

STREAM : HUBBARD RUN

LOCATION W/CODE : AT ASHTABULA, OHIO

USGS NO. 04212600

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
77 3 12 1245		.203	.144	.130	.890				12.00	72.10	6.81		647.
77 4 2 925	13.5	.188	.010	.465	.008				296.00	59.38	4.45		396.
77 4 2 1100	8.0	.135	.006	.445	.003				167.00	48.80	4.74		326.
77 4 2 1245	4.5	.077	.001	.377	.003				77.00	33.40	4.70		305.
77 4 2 1430	2.8	.096	.001	.370	.003				33.00	38.00	5.46		356.
77 4 2 1615	2.8	.035	.001	.300	.003				15.00	39.00	5.56		362.
77 4 2 1810	2.8	.130	.015	.340	.003				72.00	45.30	5.66		398.
77 4 2 2045	2.2	.030	.003	.270	.009				16.00	45.00	5.69		394.
77 4 3 1115	1.0	.025	.001	.230	.025				1.00	49.40	6.04		478.
77 4 3 1300	.6	.025	.001	.215	.026				13.00	46.20	6.13		481.
77 4 3 1430	.6	.033	.001	.200	.036				12.00	43.00	6.38		483.
77 4 3 1615	.6	.095	.001	.185	.031				29.00	67.20	6.84		581.
77 4 3 1745	.6	.030	.001	.190	.008				16.00	47.40	6.57		585.
77 4 3 1825	.6	.025	.001	.168	.012				20.00	46.00	5.83		586.
77 4 4 1230	.7	.039	.001	.530	.003				5.00	53.40	7.35		571.
77 4 4 1300	.7	.180	.162	.285	.585				3.00	58.30	7.68		630.
77 4 4 1430	.7	.072	.056	.240	.015				2.00	49.00	6.89		571.
77 4 4 1500	.7	.060	.023	.150	.003				9.00	51.70	7.07		594.
77 4 4 1715	.6	.090	.051	.280	.003				2.00	55.50	7.66		610.
77 4 4 1745	.6	.053	.003	.157	.003				11.00	47.60	6.95		564.
77 4 4 1830	.6	.090	.080	.305	.193				5.00		7.53		
77 4 5 1200		.156	.003	.190	.003						5.83		
77 5 17 2117		.030	.002	.300	.003				1.00	24.80	9.44		692.
77 5 24 1977		.105	.144	.265	.003				16.00	30.40	10.20		744.
77 6 6 1430	.8	.068	.008	.316	.250				7.00	19.60	9.36		276.
77 6 6 1455	.8	.077	.021	.319	.122				17.00	18.60	9.24		270.
77 6 6 1500	.7	.085	.078	.602	.188				1.00	18.70	9.52		273.
77 6 6 1730	.7	.443	.425	.230	1.200				2.00	28.10	11.50		304.
77 6 6 1915	.7	.245	.200	.300	.600				1.00	22.90	10.20		284.
77 6 6 1945	.7	.205	.124	.265	.530				2.00	22.50	10.20		284.
77 6 6 2345	.7	.078	.011	.246	.056				4.00	19.40	10.30		282.
77 6 7 130	.6	.420	.370	.364	.008				44.00	23.10	10.20		289.
77 6 7 405	.7	.595	.576	.364	.128				51.00	26.50	10.30		298.
77 6 7 950	.7	.428	.323	.220	1.430				9.00	27.60	10.60		310.
77 6 7 1015	.7	.365	.351	.220	1.410				7.00	27.30	10.70		310.
77 6 7 1140	.6	.135	.049	.234	.265				1.00	26.30	10.70		298.

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : ASHTABULA RIVER

STREAM : HUBBARD RUN

LOCATION W/CODE : AT ASHTABULA, OHIO

USGS NO. 94212600

SAMPLING TIME	FLOW	TOTAL	ORTHO	NO-2	NH-3	ORG.	TOTAL	COD	SUSPEND	CHLO	SI02	IRON	COND
DATE 2400	CFS	PHOS.	PHOS.	NO-3		NIT.	KJELD		SOLIDS	RIOE			25C.
YR MO DY HRS.		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UMHO
77 6 7 1205	.6	.120	.065	.230	.268				1.00	22.20	10.70		296.
77 6 7 1310	.4	.253	.153	.245	.550				1.00	29.00	10.70		304.
77 6 7 1330	.4	.275	.161	.244	.685				10.00	27.30	10.80		300.
77 6 7 1345	.4	.280	.129	.230	.738				10.00	31.90	10.80		313.
77 6 7 1535	.4	.155	.036	.230	.136				17.00	24.60	10.80		300.
77 6 7 1600	.4	.240	.024	.234	.076				108.00	24.40	10.60		297.
77 6 7 1810		.250	.164	.220	.600				14.00	25.40	10.90		300.
77 6 7 1840		.298	.290	.258	1.900				13.00	28.10	10.90		309.

RACCOON CREEK
NEAR
WEST SPRINGFIELD, PENNSYLVANIA

AD-A079 651

CORPS OF ENGINEERS BUFFALO N Y BUFFALO DISTRICT
WATER QUALITY DATA FOR LAKE ERIE BASIN SMALL WATERSHED SAMPLING--ETC(U)
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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : RACCOON CREEK

STREAM : RACCOON CREEK

LOCATION W/CODE : NEAR W. SPRINGFIELD, PA

USGS NO. 04213040

SAMPLING DATE	TIME 2400	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
77	2 16 1210	7.8	.057	.008	.450	.342				7.00	109.00	6.45		680.
77	3 12 2055	1.7	.092	.015	.400	.003				92.00	91.30	5.05		514.
77	3 12 2247	7.8	.132	.017	.483	.012				99.00	82.30	4.97		474.
77	3 13 45	7.8	.122	.014	.480	.018				267.00	100.00	4.93		511.
77	3 13 245	13.5	.168	.013	.480	.060				258.00	69.40	4.85		410.
77	3 13 443	20.5	.146	.016	.440	.003				234.00	59.00	4.82		366.
77	3 13 645	20.5	.092	.002	.430	.010				94.00	48.60	4.87		328.
77	3 13 845	16.7	.060	.002	.430	.020				80.00	45.80	4.92		326.
77	3 13 1045	10.4	.086	.002	.415	.042				56.00	47.40	4.96		324.
77	3 13 1250	12.0	.086	.002	.410	.010				35.00	48.40	4.99		328.
77	3 13 1444	12.0	.060	.002	.385	.018				32.00	50.40	5.05		336.
77	3 13 1644	8.4	.068	.002	.370	.010				30.00	45.50	5.03		334.
77	3 13 1845	10.4	.066	.002	.360	.098				25.00	47.40	5.07		336.
77	3 13 2045	7.8	.074	.002	.375	.017				34.00	54.60	5.05		366.
77	3 13 2245	12.0	.061	.002	.368	.010				28.00	48.80	5.03		342.
77	3 13 2445	11.0	.030	.002	.368	.086				47.00	49.40	4.79		332.
77	3 14 245	18.4	.062	.003	.334	.010				27.00	51.30	4.93		342.
77	3 14 443	9.7	.060	.002	.359	.010				20.00	50.20	4.94		348.
77	3 14 648	7.3	.060	.011	.332	.010				29.00	49.00	4.97		343.
77	3 14 842	7.3	.060	.002	.276	.026				12.00	51.50	4.93		356.
77	3 14 1045	6.7	.056	.002	.353	.010				9.00	50.80	4.96		352.
77	3 14 1245	7.3	.052	.002	.352	.017				14.00	41.10	4.97		301.
77	3 29 45	16.7	.025	.001	.250	.014				1.00	35.60	4.28		303.
77	3 29 248	16.7	.030	.001	.254	.056				1.00	42.70	4.24		287.
77	3 29 415	16.7	.030	.002	.254	.055				1.00	33.30	4.24		287.
77	3 29 545	13.5	.023	.001	.255	.015				1.00	33.20	4.24		287.
77	3 29 745	13.5	.019	.001	.240	.007				22.00	31.80	4.22		287.
77	3 29 915	12.0	.020	.001	.230	.024				34.00	32.30	4.18		198.
77	3 29 1045	10.4	.022	.001	.420	.011				10.00	8.30	7.79		92.
77	4 24 1687	25.2	.120	.033	.340	.003				56.00	20.10	5.00		226.
77	4 24 1743	24.0	.058	.010	.295	.003				47.00	19.40	5.00		223.
77	4 24 2002	20.5	.100	.003	.280	.003				49.00	20.00	5.00		226.
77	4 24 2200	18.8	.064	.003	.270	.016				47.00	20.10	5.05		226.
77	4 25 45	15.8	.005	.020	.280	.003				40.00	20.90	5.15		241.
77	4 25 235	15.8	.055	.003	.278	.003				53.00	20.90	5.20		238.
77	4 25 430	14.9	.045	.002	.260	.003				42.00	21.30	5.15		241.

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : RACCOON CREEK

STREAM : RACCOON CREEK

LOCATION W/CODE : NEAR W. SPRINGFIELD, PA

USGS NO. 04213040

SAMPLING DATE	TIME	FLOW	TOTAL PHOS.	ORTHO PHOS.	NO-2	NH-3	ORG. NIT.	TOTAL KJELD	COD	SUSPEND SOLIDS	CHLO RIDE	SI02	IRON	COND 25C. UMH0
YR MO DY	HRS.	CFS	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
77	4	25	555	14.1	.060	.004	.274	.008		41.00	21.40	5.20		241.
77	4	25	726	14.1	.031	.003	.260	.003		35.00	21.30	5.30		241.
77	4	25	1020	12.3	.051	.005	.255	.003		35.00	12.00	5.40		244.
77	4	25	1145	12.0	.049	.003	.255	.086		21.00	21.70	5.40		249.
77	4	25	1350	10.4	.033	.024	.260	.046		35.00	21.70	5.42		251.
77	4	25	1558	10.4	.031	.004	.258	.003		19.00	22.30	5.30		256.
77	4	25	1750	10.4	.030	.003	.252	.014		29.00	21.80	4.73		251.
77	4	25	1952	10.4	.045	.019	.260	.003		19.00	22.30	4.71		251.
77	4	25	2205	9.1	.055	.003	.253	.005		16.00	22.10	4.60		251.
77	4	25	2340	9.1	.043	.005	.250	.026		24.00	22.60	4.74		259.
77	4	26	120	9.1	.061	.004	.250	.003		8.00	23.10	4.69		256.
77	4	26	542	9.1	.051	.004	.274	.022		9.00	20.10	4.71		204.
77	4	26	740	9.1	.093	.002	.274	.018		11.00	20.10	4.72		204.
77	4	26	937	9.1	.060	.004	.280	.003		8.00	20.00	4.71		202.
77	5	5	1245	6.4	.073	.002	.155	.003		1.00	21.80	4.97		310.
77	5	5	1445	6.4	.108	.001	.196	.006		1.00	22.30	4.91		303.
77	5	5	1645	6.4	.061	.001	.200	.003		3.00	22.10	4.95		303.
77	5	6	1000	6.4	.060	.011	.310	.094		1.00	22.60	7.03		500.

MILL CREEK
AT
ERIE, PENNSYLVANIA

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : MILL CREEK

STREAM : MILL CREEK

LOCATION W/CODE : AT ERIE, PA

USGS NO. 04213200

SAMPLING DATE	TIME 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMMO
77	2 16 1115	42.0	.093	.027	.650	.106				7.00	136.00	5.80		716.
77	3 12 2005	88.1	.075	.003	.996	.006				26.00	54.10	4.83		384.
77	3 12 2203	88.1	.083	.013	.960	.033				51.00	57.10	4.77		386.
77	3 12 2400	126.6	.213	.026	.814	.029				145.00	57.80	4.29		374.
77	3 13 200	210.0	.293	.026	.850	.003				426.00	62.30	4.43		370.
77	3 13 402	187.5	.265	.021	.852	.088				342.00	63.90	4.40		359.
77	3 13 555	145.0	.055	.023	.968	.011				187.00	55.70	4.70		336.
77	3 13 800	145.0	.090	.003	.857	.003				71.00	50.20	4.66		321.
77	3 13 1000	105.9	.035	.009	.898	.003				26.00	52.60	4.72		336.
77	3 13 1205	101.3	.059	.035	.914	.003				17.00	53.90	4.95		343.
77	3 13 1403	92.7	.024	.019	.900	.003				9.00	53.70	5.10		350.
77	3 13 1600	88.1	.095	.018	.914	.003				21.00	50.40	5.22		356.
77	3 13 1806	76.1	.020	.018	.920	.116				13.00	50.20	5.27		362.
77	3 13 2000	68.5	.040	.032	.935	.370				12.00	56.20	5.11		480.
77	3 13 2200	52.2	.060	.055	.950	.255				15.00	57.10	5.14		404.
77	3 13 2400	64.7	.020	.013	.950	.066				14.00	55.50	5.14		394.
77	3 14 200	55.6	.033	.011	.966	.028				8.00	62.80	5.82		432.
77	3 14 350	64.7	.029	.012	.950	.003				1.00	53.70	5.04		410.
77	3 14 600	64.7	.025	.015	.950	.040				1.00	53.90	5.04		487.
77	3 14 800	59.0	.021	.018	.948	.004				1.00	56.40	5.03		410.
77	3 14 1000	39.0	.026	.023	.934	.003				1.00	57.60	5.04		416.
77	3 14 1200	42.0	.019	.005	.912	.003				2.00	60.80	5.80		435.
77	3 20 2400	96.9	.055	.010	.615	.007				76.00	67.70	4.17		236.
77	3 29 200	105.9	.121	.002	.626	.140				1.00	59.80	4.26		215.
77	3 29 330	88.5	.058	.002	.615	.006				29.00	44.30	4.22		341.
77	3 29 500	88.5	.029	.001	.620	.023				19.00	54.60	4.24		344.
77	3 29 700	72.3	.039	.001	.630	.038				3.00	43.20	4.26		341.
77	3 29 830	72.3	.020	.001	.619	.028				33.00	53.90	4.34		400.
77	3 29 1000	72.3	.015	.001	.610	.006				8.00	42.80	4.18		362.
77	4 24 1438	117.4	.178	.120	.990	.003				22.00	28.50	5.54		382.
77	4 24 1707	116.5	.050	.026	.960	.003				17.00	29.30	5.50		290.
77	4 24 1924	101.3	.184	.062	.905	.003				4.00	30.10	5.47		298.
77	4 24 2115	72.3	.080	.041	.960	.127				17.00	29.90	5.55		295.
77	4 24 2320	84.3	.060	.008	.930	.003				7.00	30.10	5.57		383.
77	4 25 130	88.1	.036	.005	.970	.044				10.00	32.10	5.53		320.
77	4 25 349	76.1	.071	.042	1.000	.003				1.00	39.60	5.58		310.

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : MILL CREEK

STREAM : MILL CREEK

LOCATION W/CODE : AT ERIE, PA

USGS NO. 04213200

SAMPLING DATE	TIME 2400	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COO MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
YR	MO	DAY	HRS.											
77	4	25	518	76.1	.014	.005	1.000	.003		1.00	39.60	5.61		307.
77	4	25	645	72.3	.020	.005	1.010	.003		17.00	31.80	5.50		323.
77	4	25	935	59.0	.016	.005	1.010	.003		4.00	32.30	5.56		328.
77	4	25	1105	59.0	.046	.025	1.000	.003		14.00	29.00	5.52		331.
77	4	25	1310	59.0	.090	.004	1.030	.003		10.00	33.00	5.36		349.
77	4	25	1515	55.6	.016	.004	.930	.003		1.00	35.10	5.52		351.
77	4	25	1700	55.6	.036	.003	1.000	.003		6.00	34.10	5.36		356.
77	4	25	1910	55.6	.038	.004	.948	.003		10.00	34.00	5.47		354.
77	4	25	2125	48.8	.025	.022	.995	.003		11.00	34.60	5.35		364.
77	4	25	2255	52.2	.033	.004	.990	.003		2.00	35.00	5.34		492.
77	4	26	45	48.8	.045	.003	.975	.126		1.00	35.00	5.50		356.
77	4	26	500	48.8	.061	.022	1.060	.003		14.00	34.00	4.85		364.
77	4	26	704	52.2	.061	.005	1.140	.003		12.00	34.70	4.91		364.
77	4	26	900	52.2	.047	.003	1.100	.003		11.00	35.00	5.00		367.
77	5	5	1200	45.4	.028	.003	.400	.095		3.00	38.50	4.24		364.
77	5	5	1400	45.4	.030	.003	.390	.084		9.00	38.00	3.92		359.
77	5	5	1600	42.0	.065	.003	.370	.018		9.00	38.20	3.74		362.
77	6	6	1715		.128	.015	1.110	.080		126.00	47.00	4.76		420.

**CANADAWAY CREEK
AT
FREDONIA, NEW YORK**

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CANADAWAY CREEK

STREAM : CANADAWAY CREEK

LOCATION W/CODE : AT FREDONIA, NEW YORK

USGS NO. NO USGS STA PRESENT

SAMPLING DATE	TIME 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLOR RIDE MG/L	S102 MG/L	IRON MG/L	COND 25C. UMMO
75	1 11 1020	1000.0								1620.00				
75	1 11 1020	1000.0	.200	.152	.800	.080	.340	.420		1590.00	6.30	5.10		155.
75	1 11 1020	1000.0								1280.00				
75	1 11 1021	1000.0								1240.00				
75	1 11 1021	1000.0								1290.00				
75	1 11 1022	1000.0								1310.00				
75	1 11 1022	1000.0								1270.00				
75	1 12 1015	150.0	.280	.004	1.200	.060	.450	.510			9.20	5.60		192.
75	1 12 1015	150.0								50.00				
75	1 24 1120	34.0	.021	.006	.900		.081	.081		10.00	15.00	5.60		295.
75	1 29 940	380.0	.560	.020				.820		550.00				
75	1 29 940	380.0								425.00				
75	1 29 1000	450.0								1090.00				
75	1 29 1025	640.0								1020.00				
75	1 29 1030	660.0			.900	.110	.490	.600		350.00	24.00	5.10		
75	1 29 1415	2900.0								4570.00				
75	1 29 1425	3000.0								4340.00				
75	1 29 1500	3000.0	.480	.022	.700	.060	.600	.660		3720.00	6.90	3.30		
75	1 29 1600	3000.0	.480	.022	.800	.060	.500	.560		3780.00	7.60	4.60		
75	1 29 1600	3000.0								5010.00				
75	1 30 1220	193.0								90.00				
75	1 30 1245	193.0	.023	.004	1.800	.140	.100	.240		60.00	11.00	6.10		
75	1 30 1245	193.0								90.00				
75	2 1 1000	71.0	.020	.003	1.500	.721		.720		10.00	13.50	5.10		
75	2 1 1100	71.0								20.00				
75	2 16 1530	44.0	.050	.008						10.00				
75	2 16 1530	44.0			1.300	.020	.140	.160		10.00	14.00	5.10		
75	2 18 700	187.0	.075	.006	1.400	.050	.590	.640		120.00	16.00	5.60		
75	2 18 1423	187.0								80.00				
75	2 18 1437	187.0								70.00				
75	2 18 1445	187.0	.035	.006	1.100	.174	.236	.410		60.00	15.00	6.10		
75	2 18 2000	160.0								50.00				
75	2 19 1500	100.0	.029	.004	1.200	.070	.490	.560		10.00	30.00	6.10		
75	2 23 1425	700.0	.308	.008	.800	.280	.510	.790		860.00	9.60	2.90		
75	2 23 1640	700.0	.401	.011	.800	.174	.240	.433		690.00	9.30	5.00		
75	2 24 1815	2500.0	.006	.004	.700	.175	.264	.439		2830.00	7.20	2.40		

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CANADAWAY CREEK

STREAM : CANADAWAY CREEK

LOCATION W/CODE : AT FREDONIA, NEW YORK

USGS NO. NO USGS STA PRESENT

SAMPLING TIME	FLOW	TOTAL	ORTHO	NO-2	NH-3	ORG.	TOTAL	COD	SUSPEND	CHLO	SI02	IRON	COND
DATE	2400	PHOS.	PHOS.	NO-3		NIT.	KJELD		SOLIDS	RIDE			25C.
YR MO DY HRS.	CFS	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UMHO
75 2 24 1200	2433.0								3640.00				
75 2 24 1530		.051	.006	.800	.124	.588	.712		1290.00	7.00	2.90		
75 2 24 1915	2300.0	.226	.012	.800	.136	.632	.768		1490.00	7.20	4.30		150.
75 2 25 1210	250.0	.095	.012	.900	.135	.250	.393		100.00	9.60	5.30		

SOUTH BRANCH CATTARAUGUS CREEK
NEAR
OTTO, NEW YORK

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CATTARAUGUS CREEK

STREAM : S. BRANCH CATTARAUGUS CR.

LOCATION W/CODE : NEAR OTTO, NEW YORK

USGS NO. 04213490

SAMPLING DATE	TIME 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHOS. PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLOR RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
77	2 16 1717	76.0	.071	.014	.803	.161				68.00	12.60	5.65		250.
77	3 10 2020	250.0	.262	.001	.959	.077				275.00	4.88	3.18		122.
77	3 11 120	135.0	.140	.003	1.080	.053				117.00	5.70	3.30		127.
77	3 11 440	139.0	.007	.002	1.110	.067				116.00	7.98	3.35		136.
77	3 11 800	118.0	.114	.005	1.130	.055				100.00	6.10	3.40		132.
77	3 11 1140	90.0	.076	.008	1.160	.068				91.00	5.48	3.43		137.
77	3 11 1515	99.0	.192	.010	1.200	.054				148.00	5.40	3.55		139.
77	3 11 1900	125.0	.240	.001	1.100	.040				259.00	6.50	3.35		136.
77	3 11 2230	115.0	.160	.005	1.140	.042				160.00	4.60	3.35		125.
77	3 12 405	117.0	.135	.007	1.230	.035				178.00	5.70	3.38		128.
77	3 12 655	115.0	.187	.007	1.270	.108				199.00	6.00	3.51		133.
77	3 12 1120	99.0	.150	.007	1.270	.053				125.00	4.40	3.51		137.
77	3 12 1425	144.0	2.140	.011	1.180	.041				322.00	3.90	3.42		132.
77	3 12 1905	157.0	.112	.009	1.130	.028				370.00	3.60	3.32		128.
77	3 12 2245	179.0	.152	.008	1.140	.036				275.00	4.60	3.25		121.
77	3 13 330	440.0	.162	.010	1.080	.027				1133.00	12.40	3.39		156.
77	3 13 650	912.0	.224	.023	1.000	.061				1756.00	6.00	2.85		146.
77	3 13 1100	405.0	.300	.015	1.140	.040				569.00	6.40	3.15		136.
77	3 13 1500	205.0	.196	.021	1.180	.050				368.00	6.00	3.25		134.
77	3 13 1910	228.0	.157	.008	1.160	.041				296.00	4.70	3.33		135.
77	3 13 2230	181.0	.191	.011	1.180	.038				707.00	5.20	3.40		134.
77	3 14 340	238.0	.168	.011	1.220	.043				147.00	5.60	3.38		134.
77	3 14 640	192.0	.142	.004	1.200	.125				153.00	8.10	3.27		139.
77	3 14 1045	111.0	.086	.003	1.210	.003				144.00	8.00	3.35		138.
77	3 14 1350	111.0	.120	.009	1.190	.031				104.00	7.10	3.32		139.
77	3 14 1925	130.0	.100	.009	1.170	.039				133.00	7.60	3.30		139.
77	3 14 2255	125.0	.089	.011	1.200	.044				108.00	6.40	3.30		138.
77	3 15 430	107.0	.084	.009	1.230	.029				83.00	6.20	3.34		142.
77	3 15 730	103.0	.068	.010	1.240	.016				67.00	7.50	3.30		146.
77	3 15 1455	103.0	.102	.005	1.260	.075				85.00	7.30	3.34		152.
77	3 29 345	130.0	.071	.005	.960	.016				92.00	4.70	2.88		152.
77	3 29 645	112.0	.070	.007	.975	.003				44.00	5.00	2.77		153.
77	3 30 1815	77.0	.055	.003	1.050	.003				43.00	5.10	2.76		168.
77	3 30 2220	79.0	.043	.004	1.080	.012				43.00	5.40	2.66		164.
77	3 31 345	74.0	.088	.006	1.080	.003				42.00	5.88	2.68		168.
77	3 31 650	83.0	.080	.006	1.090	.062				46.00	7.50	2.80		174.

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CATTARAUGUS CREEK

STREAM : S. BRANCH CATTARAUGUS CR.

LOCATION W/CODE : NEAR OTTO, NEW YORK

USGS NO. 04213490

SAMPLING DATE	TIME 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
77	3 31 950	83.0	.039	.005	1.030	.003				35.00	6.20	2.87		166.
77	3 31 1605	83.0	.095	.004	.940	.020				48.00	7.70	2.96		162.
77	3 31 1925	79.0	.055	.003	.960	.003				39.00	5.40	3.04		164.
77	3 31 2240	68.0	.045	.005	.985	.003				31.00	5.80	3.00		162.
77	4 4 1433	61.0	.094	.002	1.020	.003				20.00	6.70	2.84		180.
77	4 4 1755	61.0	.055	.003	1.030	.003				19.00	6.90	2.77		178.
77	4 4 2115	61.0	.015	.009	1.050	.003				11.00	7.70	2.75		188.
77	4 5 240	68.0	.051	.003	1.130	.003				14.00	7.50	2.79		198.
77	4 5 550	68.0	.040	.004	1.130	.011				13.00	7.70	2.76		191.
77	4 5 920	65.0	.009	.003	1.140	.009				9.00	7.50	2.75		192.
77	4 23 1755	840.0	.378	.012	.820	.006				489.00	3.70	3.27		142.
77	4 23 2125	1350.0	.508	.018	.865	.046				695.00	4.50	3.07		156.
77	4 24 410	860.0	.234	.007	.940	.080				176.00	3.70	3.33		144.
77	4 24 735	440.0	.228	.021	.934	.096				167.00	4.20	3.28		139.
77	4 24 1030	426.0	.194	.006	.980	.118				131.00	4.40	3.34		141.
77	4 24 1605	215.0	.150	.003	.974	.004				157.00	4.50	3.38		144.
77	4 24 1850	181.0	.170	.002	1.050	.020				71.00	4.90	3.41		147.
77	4 24 2120	196.0	.188	.001	1.070	.003				106.00	5.40	3.46		146.
77	4 25 250	171.0	.090	.001	1.090	.003				97.00	5.30	3.51		149.
77	4 25 555	144.0	.112	.002	1.090	.003				82.00	5.40	3.49		146.
77	4 25 855	130.0	.068	.001	1.120	.003				55.00	5.30	3.53		144.
77	4 25 1615	121.0	.045	.001	1.210	.164				59.00	5.50	3.58		156.
77	4 25 1908	112.0	.061	.004	1.230	.003				63.00	5.80	3.57		168.
77	4 25 2200	107.0	.046	.008	1.270	.082				58.00	6.60	3.64		159.
77	4 26 245	94.0	.052	.007	1.310	.020				65.00	6.50	3.56		166.
77	4 26 555	94.0	.040	.003	1.360	.060				54.00	6.80	3.63		172.
77	4 26 845	79.0	.046	.004	1.390	.022				42.00	6.80	3.68		174.
77	4 26 1648	88.0	.056	.002	1.400	.003				42.00	6.60	3.68		178.
77	4 26 1830	94.0	.088	.002	1.360	.003				67.00	6.60	3.52		155.
77	4 26 2110	105.0	.118	.002	1.280	.003				85.00	6.10	3.50		162.
77	4 27 150	109.0	.065	.011	1.280	.003				46.00	6.80	3.51		166.
77	4 27 440	99.0	.085	.004	1.240	.019				36.00	6.10	3.43		170.
77	5 5 1325	83.0	.075	.003	.640	.034				58.00	5.40	2.81		174.
77	5 5 1615	76.0	.063	.005	.654	.003				56.00	5.60	2.84		176.
77	5 5 1935	66.0	.076	.004	.662	.043				63.00	5.60	2.88		180.
77	6 6 1735	49.0	.080	.007	1.230	.016				61.00	26.90	2.52		482.

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : CATTARAUGUS CREEK

STREAM : S. BRANCH CATTARAUGUS CR.

LOCATION W/CODE : NEAR OTTO, NEW YORK

USGS NO. 84213490

SAMPLING TIME	FLOW	TOTAL	ORTHO	NO-2	NH-3	CRG.	TOTAL	COD	SUSPEND	CHL0	SI02	IRON	COND
DATE 2400	CFS	PHOS.	PHOS.	NO-3		NIT.	KJELD		SOLIDS	RIDE			25C.
YR MO DY MRS.		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UMHO
77 6 6 1905	36.0	.089	.006	.980	.069				100.00	16.90	2.70		310.
77 6 6 2015	28.0	.078	.020	.894	.184				58.00	12.29	2.86		277.
77 6 6 2120	24.0	.093	.005	.850	.087				59.00	11.00	2.97		270.
77 6 6 2230	24.0	.069	.007	.890	.052				53.00	10.60	3.17		264.
77 6 7 230	8.0	.100	.006	1.020	.168				17.00	12.00	3.37		283.
77 6 7 340	8.0	.037	.005	1.040	.057				12.00	12.20	3.40		282.

DELAWARE CREEK
NEAR
ANGOLA, NEW YORK

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : DELAWARE CREEK

STREAM : DELAWARE CREEK

LOCATION W/CODE : NEAR ANGOLA, NEW YORK

USGS NO. 84214840

SAMPLING DATE	TIME 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
77	3 10 2330	96.2	.101	.031	1.040	.178				76.00	10.80	4.43		157.
77	3 11 235	75.4	.080	.002	.970	.096				64.00	10.80	4.20		155.
77	3 11 600	75.4	.050	.004	.935	.068				60.00	10.90	4.35		154.
77	3 11 935	64.8	.061	.008	.940	.075				39.00	10.70	4.48		160.
77	3 11 1325	64.8	.070	.004	.944	.091				38.00	12.40	4.58		169.
77	3 11 1705	108.8	.050	.002	.895	.074				44.00	14.00	4.55		180.
77	3 11 2045	85.5	.071	.003	.932	.061				51.00	13.30	4.53		175.
77	3 12 20	75.4	.080	.007	1.040	.067				41.00	13.50	4.65		177.
77	3 12 525	51.6	.052	.006	1.100	.011				7.00	12.30	4.93		183.
77	3 12 820	53.8	.054	.004	1.460	.037				110.00	11.60	4.27		174.
77	3 12 1240	56.0	.050	.004	1.040	.055				28.00	13.90	5.00		196.
77	3 12 1620	64.8	.110	.004	.945	.011				29.00	13.70	4.73		181.
77	3 12 2100	85.5	.171	.003	1.010	.009				200.00	13.00	4.56		187.
77	3 13 20	120.0	.122	.003	.850	.012				229.00	16.70	4.42		190.
77	3 13 815	154.8	.190	.003	.960	.032				159.00	26.50	4.65		228.
77	3 13 1320	120.0	.105	.004	1.040	.087				124.00	16.90	4.64		202.
77	3 13 1635	120.0	.125	.003	1.000	.086				101.00	15.60	4.71		201.
77	3 13 2035	85.5	.101	.007	1.030	.003				70.00	15.60	4.84		204.
77	3 14 15	64.8	.071	.001	1.020	.016				59.00	15.80	4.94		210.
77	3 14 455	70.6	.060	.010	1.080	.051				45.00	16.20	5.15		218.
77	3 14 810	56.0	.050	.003	1.090	.003				26.00	16.20	5.87		221.
77	3 14 1210	56.0	.051	.001	1.110	.039				24.00	16.90	5.21		225.
77	3 14 1535	51.6	.075	.001	1.100	.058				15.00	16.50	5.23		230.
77	3 14 2100	47.2	.040	.024	1.110	.320				19.00	16.80	5.16		227.
77	3 15 30	43.0	.026	.001	1.120	.011				12.00	16.90	5.06		229.
77	3 15 555	45.0	.056	.001	1.200	.003				9.00	18.30	5.11		234.
77	3 15 845	43.0	.020	.001	1.230	.003				1.00	18.50	5.16		240.
77	3 15 1600	32.3	.020	.001	1.130	.101				4.00	19.50	5.12		256.
77	3 29 130	73.0	.036	.003	1.140	.040				33.00	38.50	3.97		373.
77	3 29 525	58.2	.060	.003	1.240	.030				30.00	25.30	4.12		302.
77	3 30 1625	22.3	.022	.002	1.220	.041				9.00	19.60	3.63		313.
77	3 30 1945	38.0	.034	.003	1.040	.041				9.00	17.40	2.74		284.
77	3 30 2335	17.1	.034	.003	.962	.026				13.00	15.60	2.66		273.
77	3 31 200	25.3		.002	.960	.040				21.00	17.90	2.52		281.
77	3 31 500	40.0		.002	.820	.057				13.00	27.00	3.70		318.
77	3 31 815	47.2		.002	.850	.023				19.00	20.70	3.46		292.

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : DELAWARE CREEK

STREAM : DELAWARE CREEK

LOCATION W/CODE : NEAR ANGOLA, NEW YORK

USGS NO. 84214848

SAMPLING TIME DATE 2400 YR MO DY HRS.	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLOR RIDE MG/L	SIO2 MG/L	IRON MG/L	COND 25C. UMHO
77 3 31 1120	38.0		.003	.830	.022				12.00	28.20	3.56		324.
77 3 31 1405	34.1	.015	.001	.820	.052				17.00	13.00	3.78		308.
77 3 31 1735	34.1	.019	.001	.870	.003				13.00	20.10	3.81		329.
77 3 31 2100	38.5	.010	.002	.920	.012				10.00	27.00	3.99		319.
77 3 31 2350	38.5	.050	.001	1.130	.044				10.00	29.00	3.67		312.
77 4 4 1255	28.7	.050	.001	1.030	.003				15.00	27.00	3.56		296.
77 4 4 1550	25.3	.050	.004	1.050	.010				6.00	20.70	3.50		303.
77 4 4 1920	25.3	.030	.003	1.090	.021				5.00	18.60	3.69		306.
77 4 4 2230	23.7	.030	.001	.990	.032				8.00	18.90	4.87		328.
77 4 5 45	25.3	.133	.001	1.150	.050				5.00	24.90	3.71		310.
77 4 5 412	25.3	.036	.001	1.190	.043				2.00	19.00	3.66		312.
77 4 5 740	26.9	.040	.001	1.220	.062				1.00	20.20	3.71		311.
77 4 5 1020	26.9	.068	.001	.910	.143				21.00	18.00	3.26		284.
77 4 23 1625	542.5	.340	.003	2.340	.340				183.00	7.10	3.46		145.
77 4 23 1940	525.0	.278	.008	2.220	.445				265.00	6.80	3.36		136.
77 4 23 2338	442.5	.202	.006	2.070	.560				252.00	6.10	3.41		130.
77 4 24 125	398.0	.262	.006	2.070	.453				280.00	5.30	3.40		122.
77 4 24 600	274.8	.230	.007	2.140	.453				144.00	5.90	3.34		134.
77 4 24 855	221.4	.150	.006	1.920	.235				133.00	6.20	3.90		134.
77 4 24 1140	182.0	.130	.005	1.790	.320				135.00	6.90	4.85		146.
77 4 24 1400	164.4	.160	.018	1.660	.333				97.00	7.00	4.25		148.
77 4 24 1730	158.0	.120	.007	1.710	.130				93.00	8.50	4.52		161.
77 4 24 1950	164.4	.122	.020	1.600	.275				80.00	8.30	4.76		163.
77 4 24 2240	164.4	.114	.006	1.740	.162				71.00	9.70	4.70		170.
77 4 25 100	154.8	.077	.008	1.880	.195				66.00	9.20	4.79		172.
77 4 25 415	148.5	.110	.009	2.170	.220				65.00	9.20	4.85		180.
77 4 25 725	108.8	.054	.005	2.250	.186				62.00	9.70	4.89		184.
77 4 25 1005	108.8	.075	.005	2.200	.205				49.00	9.50	5.22		189.
77 4 25 1445	93.4	.071	.007	2.170	.235				42.00	10.30	5.15		193.
77 4 25 1735	88.1	.060	.005	2.120	.162				40.00	10.00	5.22		198.
77 4 25 2025	88.3	.049	.009	2.100	.180				39.00	11.20	5.21		205.
77 4 25 2320	98.7	.035	.005	2.110	.165				41.00	11.30	5.20		210.
77 4 26 55	67.8	.080	.005	2.150	.180				37.00	11.10	5.26		209.
77 4 26 410	68.4	.050	.006	2.190	.225				21.00	10.90	5.29		210.
77 4 26 715	56.8	.070	.005	2.160	.225				12.00	11.00	5.35		213.
77 4 26 1015	51.6	.062	.004	2.180	.188				22.00	11.50	5.36		223.

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : DELAWARE CREEK

STREAM : DELAWARE CREEK

LOCATION W/CODE : NEAR ANGOLA, NEW YORK

USGS NO. 04214040

SAMPLING DATE	TIME 2400	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMHO
77	4 26 1405	49.4	.035	.008	2.160	.172				10.00	11.80	5.38		228.
77	4 26 1700	182.0	.048	.005	2.160	.132				9.00	12.30	5.40		226.
77	4 26 1940	40.0	.050	.005	2.150	.175				22.00	12.40	5.35		234.
77	4 26 2220	36.0	.065	.004	2.180	.168				23.00	12.50	5.30		230.
77	4 27 310	36.0	.094	.006	2.230	.172				22.00	12.70	5.25		240.
77	4 27 600	40.0	.180	.006	2.090	.263				66.00	6.10	3.74		186.
77	5 5 1155	103.2	.046	.008	2.520	.162				82.00	18.30	4.62		284.
77	5 5 1435	85.5	.110	.002	.092	.087				58.00	9.90	3.83		203.
77	5 5 1745	98.7	.067	.004	1.890	.158				42.00	18.10	4.78		297.
77	5 5 2035	67.0	.105	.004	1.790	.060				51.00	10.20	4.84		286.
77	6 6 1340	2.8	.098	.006	1.990	.056				12.00	19.50	5.06		384.
77	6 6 1531	4.7	.040	.005	2.000	.320				6.00	19.60	5.05		397.
77	6 6 1725	2.8	.053	.005	1.930	.910				2.00	22.00	5.36		443.
77	6 6 1925	6.7	.040	.004	1.940	.265				9.00	19.00	5.50		398.
77	6 6 2130	7.9	.065	.005	2.210	.112				14.00	27.60	5.74		428.
77	6 7 230	2.8	.347	.335	2.380	.003				13.00	32.50	5.87		440.
77	6 7 410	2.8	.178	.125	2.320	.055				51.00	27.80	6.83		488.

**EIGHTEEN MILE CREEK
AT
NORTH BOSTON, NEW YORK**

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : EIGHTEEN MILE CR.

STREAM : EIGHTEEN MILE CR.

LOCATION W/CODE : AT N. BOSTON, NEW YORK

USGS NO. 84214200

SAMPLING DATE	TIME 2400	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMMO
YR MO DY	HRS.													
77	2 16	1620	505.0	.178	.124	.677	.135			3.00	23.20	5.30		322.
77	3 10	1900	1250.0	.713	.025	.600	.137			129.00	6.80	3.60		172.
77	3 11	15	720.0	.361	.007	1.320	.067			480.00	8.40	3.64		166.
77	3 11	340	570.0	.279	.070	1.380	.060			242.00	10.80	3.80		172.
77	3 11	710	480.0	.357	.004	1.440	.049			160.00	10.40	3.95		175.
77	3 11	1030	360.0	.140	.012	1.490	.040			120.00	11.70	4.12		183.
77	3 11	1420	430.0	.139	.005	1.500	.051			116.00	12.80	4.26		187.
77	3 11	1800	960.0	.345	.011	1.310	.075			606.00	9.50	3.80		178.
77	3 11	2130	820.0	.311	.009	1.350	.047			465.00	8.40	3.55		158.
77	3 12	300	900.0	.128	.001	1.430	.035			274.00	8.80	3.80		167.
77	3 12	600	450.0	.101	.001	1.470	.032			109.00	9.50	4.02		170.
77	3 12	1010	460.0	.140	.004	1.000	.034			20.00	12.00	4.70		192.
77	3 12	1327	850.0	.279	.006	1.390	.016			288.00	9.20	4.04		166.
77	3 12	1800	1180.0	.730	.011	1.150	.009			436.00	6.80	3.27		157.
77	3 12	2140	1130.0	.471	.008	1.200	.012			704.00	7.40	3.25		150.
77	3 13	230	1680.0	.695	.011	1.190	.038			1354.00	8.20	3.54		170.
77	3 13	550	2850.0	2.690	.021	1.070	.043			1529.00	4.50	2.74		150.
77	3 13	1005	1450.0	1.130	.014	1.200	.036			1341.00	7.20	3.30		170.
77	3 13	1400	980.0	.480	.002	1.290	.012			722.00	8.30	3.50		170.
77	3 13	1805	890.0	.435	.006	1.270	.042			583.00	8.00	3.56		166.
77	3 13	2120	660.0	.345	.009	1.330	.054			436.00	7.90	3.65		167.
77	3 14	245	600.0	.192	.005	1.440	.003			199.00	9.70	3.92		176.
77	3 14	545	730.0	.126	.004	1.420	.006			173.00	10.80	4.04		177.
77	3 14	950	330.0	.165	.008	1.480	.024			146.00	13.30	4.23		189.
77	3 14	1250	355.0	.090	.005	1.460	.085			124.00	13.20	4.28		190.
77	3 14	1830	460.0	.116	.007	1.380	.021			225.00	13.50	4.21		184.
77	3 14	2155	390.0	.159	.007	1.300	.023			238.00	11.20	3.96		176.
77	3 15	335	300.0	.068	.005	1.350	.003			134.00	13.90	4.11		181.
77	3 15	635	287.0	.090	.006	1.390	.022			106.00	13.50	4.22		186.
77	3 15	1345	235.0	.069	.003	1.450	.027			82.00	15.70	4.44		198.
77	3 29	435	400.0	.105	.003	.965	.003			188.00	8.90	3.79		140.
77	3 29	730	300.0	.092	.003	1.030	.023			90.00	9.30	3.98		150.
77	3 30	1710	210.0	.040	.006	1.130	.003			61.00	10.90	4.39		180.
77	3 30	2125	205.0	.045	.007	1.020	.003			64.00	9.10	4.13		144.
77	3 31	240	210.0	.060	.004	1.010	.006			50.00	9.90	3.98		170.
77	3 31	545	192.0	.049	.006	1.040	.006			54.00	10.70	4.06		180.

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LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : EIGHTEEN MILE CR.

STREAM : EIGHTEEN MILE CR.

LOCATION W/CODE : AT N. BOSTON, NEW YORK

USGS NO. 04214200

SAMPLING DATE	TIME 2400	FLOW CFS	TOTAL PHOS. MG/L	ORTHO PHOS. MG/L	NO-2 NO-3 MG/L	NH-3 MG/L	ORG. NIT. MG/L	TOTAL KJELD MG/L	COD MG/L	SUSPEND SOLIDS MG/L	CHLO RIDE MG/L	SI02 MG/L	IRON MG/L	COND 25C. UMMO
YR	MO	DAY	HRS.											
77	3	31	055	240.0	.110	.012	1.020	.042		79.00	11.50	4.06		182.
77	3	31	1510	225.0	.048	.010	1.000	.050		55.00	17.10	4.18		190.
77	3	31	1820	180.0	.212	.023	.982	.003		34.00	17.10	4.21		190.
77	3	31	2140	162.0	.025	.003	1.020	.003		32.00	12.00	4.27		189.
77	4	4	1330	82.0	.039	.013	1.120	.007		8.00	14.50	4.34		229.
77	4	4	1705	82.0	.060	.022	1.130	.003		1.00	14.20	4.35		228.
77	4	4	2020	82.0	.050	.003	1.150	.003		3.00	14.70	4.42		230.
77	4	5	147	80.0	.031	.003	1.180	.003		6.00	15.10	4.47		214.
77	4	5	453	80.0	.034	.006	1.190	.003		3.00	16.30	4.46		235.
77	4	5	820	80.0	.055	.005	1.210	.003		1.00	14.70	4.43		232.
77	4	23	1700	3650.0	.910	.005	1.210	.009		2676.00	21.80	3.28		326.
77	4	23	2020	2950.0	.840	.004	1.250	.003		1763.00	4.70	3.62		184.
77	4	24	320	1350.0	.577	.014	1.320	.042		584.00	5.00	4.00		192.
77	4	24	645	748.0	.184	.003	1.450	.003		635.00	6.40	4.48		194.
77	4	24	925	590.0	.150	.002	1.590	.003		385.00	7.40	4.64		190.
77	4	24	1510	500.0	.178	.002	1.580	.003		214.00	8.80	4.74		195.
77	4	24	1800	462.0	.120	.003	1.390	.003		199.00	8.50	4.72		194.
77	4	24	2020	450.0	.112	.002	1.380	.003		166.00	8.80	4.79		332.
77	4	25	140	480.0	.074	.002	1.380	.051		79.00	9.00	4.88		200.
77	4	25	455	355.0	.040	.004	1.340	.193		98.00	9.50	4.83		198.
77	4	25	800	330.0	.016	.002	1.330	.003		86.00	9.70	4.84		210.
77	4	25	1530	270.0	.060	.002	1.400	.003		53.00	10.50	4.93		214.
77	4	25	1815	230.0	.052	.001	1.360	.003		53.00	10.40	4.98		210.
77	4	25	2100	220.0	.036	.001	1.420	.007		53.00	10.60	4.95		220.
77	4	26	135	200.0	.030	.002	1.460	.003		28.00	11.50	5.05		227.
77	4	26	455	180.0	.025	.003	1.460	.017		16.00	10.90	5.04		232.
77	4	26	750	160.0	.031	.003	1.440	.003		31.00	11.50	5.05		230.
77	4	26	1545	150.0	.031	.003	1.470	.003		2.00	11.90	5.04		244.
77	4	26	1735	152.0	.015	.002	1.480	.003		31.00	11.90	5.08		246.
77	4	26	2010	170.0	.020	.003	1.480	.080		40.00	11.60	5.06		240.
77	4	27	95	160.0	.090	.002	1.340	.003		48.00	10.60	4.93		230.
77	4	27	345	150.0	.070	.003	1.360	.008		56.00	11.20	4.92		234.
77	5	5	1235	275.0	.065	.005	.965	.003		132.00	6.70	4.43		185.
77	5	5	1510	245.0	.048	.002	.985	.003		103.00	7.80	4.58		196.
77	5	5	1835	210.0	.070	.005	1.020	.003		75.00	8.00	4.67		210.
77	6	6	1454	4.0	.068	.031	.580	.003		1.00	23.70	3.85		422.

LAKE ERIE WASTEWATER MANAGEMENT STUDY - WATER QUALITY INFORMATION

MAJOR RIVER BASIN : EIGHTEEN MILE CR.

STREAM : EIGHTEEN MILE CR.

LOCATION W/CODE : AT N. BOSTON, NEW YORK

USGS NO. 04214200

SAMPLING TIME	FLOW	TOTAL	ORTHO	NO-2	NH-3	ORG.	TOTAL	COD	SUSPENS	CHLOR	SIO2	IRON	COND
DATE 2400	CFS	PHOS.	PHOS.	NO-3		NIT.	KJELD		SOLIDS	RIOE			25C.
YR MO DY HRS.		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UMNO
77 6 6 1623	4.0	.452	.444	.580	.062				18.00	24.38	4.35		428.
77 6 6 1823	4.0	.075	.048	.600	.022				2.00	24.00	3.90		426.
77 6 6 2030	4.0	.040	.016	.610	.056				7.00	24.70	3.87		423.
77 6 6 2230	4.0	.025	.009	.625	.067				1.00	25.20	3.87		432.
77 6 6 2320	2.6	.445	.400	.650	.010				2.00	25.00	3.86		433.